BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

Booker T. Washington National Monument



WATER RESOURCES DIVISION AND SERVICEWIDE INVENTORY AND MONITORING PROGRAM



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BASELINE WATER QUALITY DATA INVENTORY AND ANALYSIS

BOOKER T. WASHINGTON NATIONAL MONUMENT

National Park Service Water Resources Division Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-97/116

DECEMBER 1997

United States Department of the Interior National Park Service Washington, D.C.

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Booker T. Washington National Monument (BOWA) from six of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) water quality database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); (5) Water Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze surface water quality data for all units of the National Park System containing significant water resources. The primary goal of the project is to provide descriptive water quality information in a manner and format that is both consistent with the goals of the Servicewide Inventory and Monitoring Program and useable by park resource managers. The document provides: (1) a complete inventory of all retrieved water quality parameter data, water quality stations, and the entities responsible for the data collection; (2) descriptive statistics and appropriate graphical plots of water quality data characterizing period of record, annual, and seasonal central tendencies and trends; (3) a comparison of the park's water quality data to relevant EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis (IDEA) to determine what Servicewide Inventory and Monitoring Program "Level I" water quality parameters have been measured within the study area. Accompanying the report are disks containing digital copies of all data used in the report, as well as all components of the report (tables, figures, etc.).

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located no industrial/municipal dischargers; no drinking water intakes; no U. S. Geological Survey (USGS) gages; and one water impoundment. The results of the STORET retrieval for the study area yielded 29,340 observations for 357 separate parameters collected by the EPA and the Virginia Department of Environmental Health from 1970 to 1997. Approximately 96 percent of the observations in the study area were reported by the Virginia Department of Environmental Health. The BOWA study area contained 15 monitoring stations (none within the park boundary).

Many of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Nine stations within the study area yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Smith Mountain Lake, Brooks Mill Bridge Route 834, Franklin County (BOWA 0014); (2) Smith Mountain Lake, Hales Ford (BOWA 0004); (3) Smith Mountain Lake, Station #21, Buoy 50, Franklin County (BOWA 0013); (4) Smith Mountain Lake, Station #23, Buoy 11A Franklin County (BOWA 0007); and (5) Station 12 Confluence with Indian Creek (BOWA 0008)[†].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the BOWA water quality criteria screen found 10 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, lead, selenium, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Cadmium and lead exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

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[†]Water quality station location descriptions are verbatim from STORET. Any misspellings and abbreviations in STORET are replicated in this document.

Dissolved oxygen concentrations were measured 1,235 times at 10 monitoring stations from 1970 through 1997. Of the 1,233 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 183 observations at seven stations in Smith Mountain Lake (BOWA 0001, BOWA 0004, BOWA 0005, BOWA 0007, BOWA 0008, BOWA 0013, BOWA 0014) were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life.

The pH was measured 1,839 times at 10 monitoring stations from 1970 through 1997. Of the 1,835 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 200 observations at nine stations were outside the pH range 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). Ninety-six percent of the observations exceeding these criteria were collected in Smith Mountain Lake. Eighty-one observations were greater than or equal to pH 9.0. The highest reported pH was 9.9 SU in Smith Mountain Lake at Station #21 (BOWA 0013) in October 1986. One-hundred nineteen observations were less than or equal to pH 6.5. The lowest reported pH was 5.8 SU at the Station 12 Confluence with Indian Creek (BOWA 0008).

Turbidity was measured 432 times at six monitoring stations from 1971 through 1997. Of the 429 observations used in the criteria analysis (see Media Type Screen and Remark Code Screen in the Methodology for explanation), 27 observations at four stations (BOWA 0004, BOWA 0008, BOWA 0010, BOWA 0014) exceeded the WRD screening criterion of 50 turbidity units Jackson Candle/Formazin/Nephelometric turbidity units (JTU/FTU/NTU) between 1989 and 1996. The highest reported value was 670 JTU in Smith Mountain Lake, Brooks Mill Bridge Route 834 (BOWA 0014) in June 1995.

Total coliform concentrations were measured seven times in Smith Mountain Lake, Brooks Mill Bridge, Route 834 (BOWA 0014) between April and November 1970. Six of the seven observations exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml). Five values of 11,000 CFU/MPN/100 ml and one value of 4,600 CFU/MPN/100 ml were reported at this station. Fecal coliform concentrations were measured 703 times at eight monitoring stations from 1970 through 1995. Of the 703 observations, 405 observations at two stations on Gills Creek (BOWA 0009 and BOWA 0010) and three stations on the Blackwater River/Smith Mountain Lake (BOWA 0012, BOWA 0013, BOWA 0014) exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml. Approximately 69 percent of the observations exceeding the criterion were reported in Smith Mountain Lake, Brooks Mill Bridge, Route 834 (BOWA 0014) between 1970 and 1996. The highest value of 80,000 CFU/MPN/100 ml was reported at this site in May 1971. Approximately 29 percent of the observations exceeding the criterion were reported in Gills Creek at the Route 834 Bridge near Booker T. Washington National Monument (BOWA 0010) between 1991 and 1995. The highest values reported at this site were three observations of 8,000 CFU/MPN/100 ml occurring in May and June 1992.

Total cadmium concentrations were measured 368 times at nine monitoring stations from 1970 through 1994. Of the 240 observations used in the criteria analysis (see Media Type Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), three concentrations exceeded the acute freshwater criterion of 3.9 micrograms per liter (μ g/L) and the drinking water criterion of 5.0 μ g/L at three stations in Smith Mountain Lake. The highest value of 50 μ g/L was reported in Smith Mountain Lake, at Hales Ford (BOWA 0004) in June 1983. A value of 7 μ g/L was reported above Stripers Landing (BOWA 0005) in June 1984. A value of 6 μ g/L was reported at the Station 12 Confluence with Indian Creek (BOWA 0008) in October 1994.

Total copper concentrations were measured 383 times at nine monitoring stations from 1970 through 1994. Of the 381 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 16 total concentrations at six stations in Smith Mountain Lake (BOWA 0004, BOWA 0005, BOWA 0007, BOWA 0008, BOWA 0013, BOWA 0014) exceeded the acute freshwater criterion of 18 μ g/L. The highest value of 48 μ g/L was reported in Smith Mountain Lake at Hales Ford (BOWA 0004) in July 1986.

Total lead concentrations were measured 380 times at nine monitoring stations from 1970 through 1994. Of the 378 concentrations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 25 total concentrations at eight stations exceeded the drinking water criterion of 15 μ g/L. Two concentrations of 120

 μ g/L and 108 μ g/L at the Station 12 Confluence with Indian Creek (BOWA 0008) also exceeded the acute freshwater criterion of 82 μ g/L in July 1985 and July 1986, respectively.

Total selenium concentrations were measured 301 times at seven monitoring stations from 1983 through 1994. Of the 299 concentrations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), four concentrations at two stations exceeded the acute freshwater criterion of 20 µg/L on October 19, 1993. One concentration of 23 µg/L was reported in Smith Mountain Lake at Station #23 (BOWA 0007). Three concentrations of 21, 27, and 29 µg/L were reported in Smith Mountain Lake at Station #21 (BOWA 0013).

Total zinc concentrations were measured 381 times at nine monitoring stations from 1970 through 1994. Of the 379 concentrations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 18 concentrations at five stations in Smith Mountain Lake (BOWA 0004, BOWA 0005, BOWA 0007, BOWA 0008, BOWA 0013) exceeded the acute freshwater criterion of 120 µg/L in from June 1983 to July 1991. The highest value of 780 µg/L was reported in Smith Mountain Lake at Station #23 (BOWA 0007) in April 1990.

The IDEA conducted for BOWA indicates that STORET data exist for all 13 Level I parameter groups in the study area; however, no water quality data collected within the park boundary exist in STORET. For all groups, at least 60 percent of the observations were recorded since 1985. Data for four groups (Conductivity, Flow, Chlorophyll, and Sulfates/Total Dissolved Solids/Hardness) were recorded at fewer than half of the 15 monitoring stations with data. Relative to other parameter groups, data were limited for the groups Flow and Chlorophyll. Results for 37 of the 126 EPA priority toxic pollutants (consisting of metals, organic parameters, pesticides, and PCBs) were retrieved from STORET. Of the 15 monitoring stations with data, one station (BOWA 0003) measured only metals and two stations (BOWA 0011 and BOWA 0015) measured only nutrients (nitrogen, nitrate, nitrite, and phosphorous). One station, Smith Mountain Lake, Brooks Mill Bridge Route 834 (BOWA 0014), accounted for approximately 32 percent of the 29,340 water quality observations. Stations in Smith Mountain Lake, including the impounded areas of the Roanoke and Blackwater Rivers, account for 89 percent of observations. Stations in Gills Creek account for the remaining 11 percent of observations.

BOWA is located 22 miles southeast of Roanoke, Virginia. Surface water resources in the BOWA study area include the Roanoke and Blackwater Rivers; Gills Creek and Jack-O-Lantern Branch (a small spring-fed stream that flows through the BOWA); and Smith Mountain Lake (a pump-storage hydroelectric reservoir which impounds the Roanoke and Blackwater rivers). The study area primarily contains pastures, crop lands, and dairy farms. Based on the data inventories and analyses contained in this report, surface waters within the study area are generally of good quality with some impacts from human activities. Reaches of the Blackwater River appear to be impacted by turbidity and reaches in both the Blackwater River and Gills Creek appear to be impacted by fecal-indicator bacteria. Potential anthropogenic sources of contaminants include agricultural runoff from crops and animal pens; municipal and industrial wastewater discharges; mining and quarrying operations; and recreational use.



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INTRODUCTION

The National Park Service's (NPS) Organic Act of 1916 states that the mission of the NPS is to promote and regulate the use of national parks, monuments, and other units "... to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations." One task embodied by this mission is preserving and protecting water resources and water dependent environments in parks. Ensuring the integrity of park water quality, due to its importance in sustaining natural, aquatic park ecosystems and supporting human consumptive and recreational use, is fundamental to successfully addressing this task. The first step in ensuring the integrity of park water quality is defining historic and extant water quality.

This document represents one product of an ongoing effort by the NPS Water Resources Division (WRD) and the Servicewide Inventory and Monitoring Program to characterize baseline water quality using existing data at park units containing significant natural resources. This effort was initiated in 1993 by the award of a contract to Horizon Systems Corporation to retrieve, format, and analyze surface water quality data from the Environmental Protection Agency's (EPA) Storage and Retrieval (STORET) database system. The scope of work identified in the Request For Proposals outlined several sequential, interrelated project phases, including, but not limited to: (1) determining the water quality retrieval/query area around each park; (2) downloading and assessing the quality of the data from STORET; (3) generating basic water quality summary statistics and graphic plots; (4) reformatting water quality data for compatibility with the park-based Water Quality Data Management System presently underdevelopment; and (5) providing recommendations concerning possible hardware, software, and personnel options for storing combined park databases in a centralized NPS water quality database. This report documents the results of phases one through four of this effort for this park unit.

Goal

The goal of this document is to provide descriptive water quality information in a format usable for park planning purposes (eg. Water Resources Management Plans, Resource Management Plans, and General Management Plans). The report is designed to characterize baseline water quality rather than assess specific water quality problems at a park. This is consistent with the Servicewide Inventory and Monitoring Program's goal of obtaining basic, "Level I", water quality parameters for key waterbodies at each park (National Park Service 1993). Consequently, this report is best used as a reference document to help design new goal-driven water quality monitoring programs rather than as conclusive evidence of previous or existing water quality problems.

Purpose

The purpose of this report is to inventory existing park water quality data; establish baseline water quality at the park; identify potential water quality problems; and establish a park water quality database. This report is intended to enable park resource managers to compare and contrast water quality data collected as part of ongoing inventory and monitoring programs with historical water quality trends. Additionally, this report is intended to foster better designed park-based water quality inventory and monitoring programs in the future. The water quality databases which accompany this report will also lay the groundwork for establishing a NPS water quality database that will allow Regions and Washington Offices to generate regional and national assessments of park water quality.

Objectives

Specific objectives of the study documented in this report are to:

- 1. Retrieve water quality and related data from the EPA's STORET and other database systems;
- 2. Develop a complete inventory of all retrieved data;

- 3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;
- 4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;
- 5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and
- 6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

This report is comprised of five chapters. The first chapter, this Introduction, provides a brief statement of the study's background; goal, purpose, and objectives; and the key personnel who helped produce the document. This chapter also contains this brief overview of the document's contents and important interpretive caveats to consider when referring to and using this document. The second chapter focuses on the methods, procedures, and databases that were employed to retrieve and analyze water quality data for the park. The third chapter is the user's interpretive guide to chapter four. Chapter three explains how to interpret all the tables and figures presented in chapter four. Chapter four, which likely comprises the majority of the document (unless there isn't much water quality data for the park), contains detailed inventories, descriptive statistics, graphics, and national EPA water quality criteria comparisons characterizing the park unit's water quality data on a station-by-station basis and over the entire study area. This chapter also contains a comparison of park water quality data with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters and a listing of water quality observations that were outside the STORET edit criteria range. Chapter five, the Appendices, contains more specialized materials such as the file names and database structures included on floppy disk(s) with this report; STORET edit criteria; national EPA water quality criteria; Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters; selected water quality references; and other materials which provide background on the methods, procedures, and databases used or produced by this study.

The water quality and other related data referenced in this report accompany the document on floppy disk. The water quality parameter data file is in DBASE III+¹ format and will be useable in the park-based Water Quality Data Management System presently under-development. The water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and River Reach databases are also in DBASE III+ and/or ASCII format for ready-use in Geographic Information Systems (GIS), Computer-Aided Design Systems, or Desktop Mapping Systems.

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses² and with the Servicewide Inventory and

¹The use and/or mention of specific proprietary hardware or software packages is for informational purposes only and is not intended to connote or denote an endorsement.

²The Environmental Protection Agency's Quality Criteria for Water 1995 Final Draft (Silver Book) was the primary source of water quality criteria. In the spirit of the other caveats offered in this section, it is important to recognize that water quality criteria are often revised when new or better information become available.

Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

Many individuals contributed to the design and implementation of this project. The primary contributors and their roles in the project are briefly mentioned below.

National Park Service, Water Resources Division:

Dean Tucker was the Contracting Officer's Technical Representative responsible for designing, coordinating, and implementing all aspects of this effort.

Mike Matz coordinated and managed the team which prepared all components of the report.

Gary Rosenlieb provided administrative oversight and was involved in quality control for all tasks related to this project.

Barry Long and Roy Irwin reviewed technical tasks and provided water quality expertise related to data analysis.

Gary Smillie provided hydrologic expertise in the determination of hydrologic seasons.

Donnie Dustin and Greg Harp helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Brad Van Deusen, Brian Verbeck, Robert Flynn, and Dawn Grandbois provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, Mary Beth Talty, Todd Widegren, Curtis Cooper, Paul McElvery, J. Chris Echohawk, Kristie Maczko, Jim McQuarrie, and Adam Henson uploaded water quality data to STORET prior to report preparation.

Jacquie Nolan designed the cover.

Horizon Systems:

Cindy McKay served as Project Manager for Horizon Systems, performed the initial requirements analysis, and was involved in all quality control tasks related to the project.

Alan Cahoon was responsible for automating the procedures which produced the water quality databases and Water Quality Results chapter.

Sue Hanson, P.E., provided technical advice for writing this document.

Dr. Jim Loftis was the data quality analyst for the project.

Armando F. Ballofet, P.E., served as the local technical liaison between Horizon Systems and the NPS.

Other National Park Service:

Several other individuals provided invaluable technical review, comments, administrative support, and/or other assistance, including: Dan Kimball, Bill Jackson, Mark Flora, Gary Williams, John Karish, Brendhan Zubricki, Richard Hammerschlag, Randy Ferrin, Gary Vequist, Mike Martin, Kevin Berghoff, and Dyra Monroe.

METHODOLOGY

This section provides an overview of the procedures and criteria used to retrieve and analyze water quality data for each park unit. Generating baseline water quality data inventories and analyses for all NPS units is a monumental task. To accomplish this undertaking given a very limited budget, the procedures employed to produce each report had to be as generic and automated as possible. Consequently, customization of reports to individual park needs and issues was not feasible. Moreover, such customization was beyond the scope of this effort which was simply intended to produce baseline water quality data inventories for all parks rather than customized issue-driven reports. During the procedure-development stages of the project, specifications for the final product evolved, within the context of the aforementioned resource constraints, to focus on comprehensive water quality baseline data inventories and concise, descriptive statistical examinations of the available water quality data for each park unit. Detailed below are the data sources and final methods and procedures that were used to create the baseline water quality inventories, analyses, databases, and other products for each park unit. A thorough understanding of the limitations of the data sources and procedures described in this chapter and the next (Interpretive Guide to Water Quality Results) is a prerequisite to intelligent use of the results presented in this document.

Delineation of Park Study Area

The first step in retrieving water resources-related data for each park was deciding on a procedure to determine the study area boundary. Since water flows through parks, utilizing the park boundary as a simple query/study area was deemed inadequate. On the other end of the continuum, using the entire watershed as the study area was considered superfluous given: (1) the areal extent of certain park watersheds (eg. the entire Mississippi River); (2) the sheer volume of potentially irrelevant data such a large study area could generate; and (3) the resources required to specify the watershed for each park unit. The approach which was ultimately adopted - a modified hydrologic boundary - reflects a compromise between the park boundary and the entire watershed. Thus the study area employed for each park is an area extending at least three miles upstream and one mile downstream from the park boundary. Although these distances are somewhat arbitrary, this approach is easy to automate and was felt to limit the data retrieved, in most instances, to that of most importance to the park. Extending the query area one mile downstream of the park was intended to capture any data immediately downstream of the park which may reflect the quality of the water in the park. A current (as possible) copy of each park's boundary was obtained in digital format directly from the park or digitized from Regional land status maps, U.S. Geological Survey (USGS) quadrangles, or other sources. Using GIS techniques, the boundary was used to create the three miles upstream, one mile downstream buffer. For a few parks with which WRD water quality specialists were very familiar with potential water quality threats and/or valuable sources of data that may lie just outside the study area, the study area may have been tweaked (enlarged) to cover these areas of concern or interest. Unfortunately, a customized study area was not feasible for all park units. Hence, the three miles upstream, one mile downstream buffer was the primary study area employed for most parks. This study area was transferred to the EPA mainframe computer and used as the basis for all water resources-related data retrievals from the data sources described below.

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Six of these data systems were used for this project:

- STOrage and RETrieval System (STORET) water quality parameter data, locations of sampling stations, descriptive elements about stations and parameters;
- Industrial Facilities Discharge (IFD) locations of industrial and municipal point source discharge facilities;

- Drinking Water Supplies (DRINKS) locations of intake pipes for drinking water supplies;
- Water Gages (GAGES) locations of USGS and other water gages;
- Water Impoundments (DAMS) locations of most large water impoundments (greater than 10,000 acre feet at normal pool volume) and many smaller impoundments; and
- River Reach File, Version 3 (RF3) 1:100,000 scale geographical representation of surface waters (rivers, lakes, etc.) with a unique identifier assigned to each surface water segment and connectivity information useful for routing and navigation.

STORET is the national water quality data repository (U.S. Environmental Protection Agency 1989). Water quality data is entered in STORET by public agencies (federal, state, or local) that collect water samples and/or perform laboratory analysis. As such, STORET is a "user-beware" data system. Although the EPA manages the STORET data system and, since November 1983, has imposed some minimum quality control criteria on the data (See Appendix C), data are generated and input to STORET by the "owner" agencies. Consequently, the EPA does not certify any data within STORET. Currently, there are over 800,000 active and inactive sampling stations and more than 225 million observations covering in excess of 13,000 water quality parameters entered in STORET. The earliest data dates back to the turn of the century. Using the bi-monthly update cycle, user agencies may store results of recent monitoring activities in STORET. Included in STORET is USGS WATSTORE water quality data, which is updated on a monthly basis. Although STORET contains a phenomenal amount of data, it is important to note that data exist in STORET only if the collectors decide to upload their data to the system. Since many agencies and researchers do not upload their data to STORET, the absence of water quality data in the system for a particular area doesn't mean that there has never been any water quality data collected for the area. The data may exist in published or unpublished reports, file cabinets, or in agency-specific databases. Identifying and retrieving these other sources of data were beyond the scope of the present effort. All parameter data and water quality station location data downloaded from STORET within the park's study area are included in DBASE III+ format files on disk(s) accompanying this report (See Appendices A and B).

The data within the IFD database are extracted from the EPA's Permit Compliance System (PCS). IFD contains the facility locations of all industrial and municipal dischargers which require a National Pollutant Discharge Elimination System (NPDES) permit to operate. Over 7,100 municipal, federal, and industrial facilities discharging into the waters of the United States are tracked by PCS and IFD. If any industrial facilities discharges exist within the study area, a file in DBASE III+ format documenting a variety of information about each discharge accompanies this report on disk (See Appendices A and B).

The EPA DRINKS database identifies locations of drinking water supply intakes. This file contains data for 850 supplies which serve more than 25,000 people, and 6,800 supplies which serve between 1,000 and 25,000 people. If any drinking water intakes exist within the study area, a file in DBASE III+ format documenting a variety of information about each intake accompanies this report on disk (See Appendices A and B).

The GAGES data originates primarily with the USGS and copies are maintained on the EPA mainframe computer for ease of integration with other EPA national data systems. Although other agency's water gages, as well as some artificial gages, may appear in GAGES, the vast majority of gages are stream gages belonging to the USGS. The GAGES database contains approximately 36,000 records for both active and inactive gaging stations. If any USGS or other agency stream gages occur within the study area, a file in DBASE III+ format documenting several fields of information about each gage accompanies this report on disk (See Appendices A and B).

The Water Impoundment database was originally compiled by the U.S. Army Corps of Engineers in response to a Congressional inquiry on dam safety hazards (GKY and Associates 1990). The EPA subsequently modified the database for use in water quality investigations. Of the 68,155 dams in the database, 2,125 are considered large (impounding 10,000 acre feet or more at normal pool volume). It is important to note that while the database includes entries for 66,030 smaller dams, estimates place the actual number of dams in the U.S. at several million

(including small farm ponds). If any water impoundments occur within the study area, a file in DBASE III+ format documenting several fields of information about each impoundment accompanies this report on disk (See Appendices A and B).

The RF3 data system is a hydrologic database of surface water features across the U.S. (excluding, at present, Idaho, Oregon and Washington, which currently operate a different system - although this data is expected to be converted to RF3 soon, Alaska and Hawaii). RF3 was created primarily from 1:100,000 scale USGS Digital Line Graph data. RF3 is made up of over 3,000,000 individual "reaches". A reach is generally defined as a portion of surface water between two confluences (U.S. Environmental Protection Agency 1993). The linework underlying RF3 contains over 95,000,000 coordinate points. RF3 is designed to facilitate hydrologic routing, identifying upstream and downstream elements, and specifying the exact location of any point on a stream network. RF3 data exists as a series of traces with associated attributes. The EPA project which is producing RF3 is being conducted in three phases: Compilation, Assessment, and Revision. The Compilation phase is complete except for Idaho, Washington, Oregon, and Alaska. The Assessment phase was completed during the first half of 1994; while the Revision phase was begun in March 1994. One important outcome of the Revision phase is that the reach codes which uniquely identify each surface water feature will change. Consequently, these codes should not be used, at this time, as keys for relating other data to RF3. The RF3 data provided with this document is provisional and should be used only to provide a geographic backdrop for the park's water quality data. RF3 data covering each USGS catalog unit (a geographic area representing a single or multiple drainage basin(s), or some other distinct hydrologic feature (U.S. Geological Survey 1982)) touched by the park's study area is included in ASCII export and DBASE III+ formats on the disk(s) accompanying this report (See Appendices A and B).

For additional information on any of these data systems, contact the EPA Office of Water at (202) 260-7028.

Data Retrieval and Analysis Procedures

The six EPA data systems discussed above reside on the EPA mainframe computer located in Research Triangle Park, N.C. Horizon Systems used a dedicated, leased telephone line with a data transfer rate of 9600 bits per second to download data occurring within the park's study area from all the databases. The bisynchronous communication software and hardware provided error checking during all data transfer procedures.

As described above, the park study/query area boundary was used to select the water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and river reaches associated with the park unit. For various reasons, screening criteria (described later in this section) were employed to select appropriate water quality stations, parameters, and observations. Horizon Systems wrote several mainframe programs to automate, to the greatest extent feasible, the STORET data retrieval and storage procedures. Once the data were extracted from the EPA data systems, they were downloaded to a microcomputer for statistical analyses and reformatted into DBASE III+ compatible format.

Specifically, once on the PC, the data were processed to:

- (1) Reformat the data into DBASE III+ format and other database structures;
- (2) Eliminate questionable data outside the STORET edit criteria ranges (See Appendix C);
- (3) Display on a map the location of water quality monitoring stations and other water resources themes;
- (4) Determine the frequency of water quality observations by station, parameter, and station/parameter;
- (5) Generate descriptive period-of-record water quality statistics in a tabular format;
- (6) Generate appropriate descriptive annual and seasonal analyses of the water quality data in a tabular format:
- (7) Plot appropriate period of record time series and annual and seasonal box-and-whisker graphs;
- (8) Compare the water quality data against relevant EPA national criteria; and

(9) Compare the water quality data against the NPS Servicewide Inventory and Monitoring Program's "Level I" water quality parameters.

Special customized microcomputer programs (primarily written in Clipper and Microsoft Professional BASIC) and procedures were created to address each of these tasks. All reformatted database files are included on disk(s) accompanying this document. The contents of these databases are described briefly below. Complete database structures are included in Appendices A and B. The descriptive water quality tabular statistics (see "Statistical Analyses" below) were computed based upon NPS specifications. Command or batch files were generated to drive STATGRAPHICS 7.0 in order to produce all the time series and box-and-whiskers plots.

Park Unit Databases

Up to seven digital databases in DBASE III+ and other formats have been created for the park by querying the water resources-related data sources described above. The disk(s) containing these databases accompany the report. The contents of each of these databases are discussed briefly below. More detailed documentation of these databases is included in Appendices A and B.

- (A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.
- (B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.
- (C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.
- (D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.
- (E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.
- (F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.
- (G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

The absence of any of these seven files from the disk(s) accompanying the report indicates that there was either no data of this type within the park's study area or the data was unavailable. Several other files are included on the disk(s) accompanying this report, including digital copies of all the figures and tables contained in the document and some other items. Refer to Appendices A and B for detailed documentation of these files. Not included on

disk is an Encyclopedia File (for WRD reference) that documents the minimum and maximum values for each water quality parameter and the parks in which those values were recorded. When Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks, this Encyclopedia File will be available upon request from the NPS WRD.

Screening Methodologies and Procedures

Developing automated or semi-automated procedures to produce baseline water quality inventories and analyses for all national park units required constant testing and debugging of procedures. Three parks, Rock Creek Park, Yellowstone National Park, and Indiana Dunes National Lakeshore, were used to pilot test and refine the automated procedures. It became evident, after a preliminary analysis of all the downloaded STORET data, especially for Indiana Dunes National Lakeshore, that the specifications for the graphical analyses could generate hundreds (possibly thousands) of plots, many of which would not necessarily be useful. Also, there were many stations; parameters; and/or observations downloaded that were not part of the study's objectives; not overly useful; or of dubious quality. In order to reduce the number of graphical plots (time series, annual and seasonal box-and-whiskers) to fit within project resources, various screening criteria were investigated. Ultimately, a comprehensive set of screening criteria were developed to reduce the number of graphical plots. After initial counts of the total number of possible time series and annual and seasonal box-and-whiskers plots were generated, these counts were used to decide which screening criteria would be applied to limit the number of these plots produced for the park unit. Additional screening criteria were employed to restrict the tabular descriptive statistics results to only those deemed useful to the park. Table A provides the categories of screening criteria and to which analyses the screens were applied. A "yes" entry in the table means that the screening category eliminated or prevented data from appearing in certain tables and plots contained in the document. Consequently, in understanding how data from STORET was used in this report, it may be helpful to keep in mind the three general types of screening criteria: (1) screens that apply to stations; (2) screens that apply to certain parameters at stations; and/or (3) screens that apply only to particular observations of parameters at stations. A detailed description of each of the screening criteria categories follows this table. It is important to note that statistics in "Inventory" reports may not be consistent with statistics in "Overview" reports since different categories of screening criteria were applied. Also, if attempting to replicate the results of the statistical and graphical analyses presented in this document, be sure to follow the same screening methodologies.

STORET Edit Criteria

As mentioned previously, STORET is a "user-beware" data system. As the EPA doesn't certify any data in STORET, public agencies enter and are responsible for the quality of their own data. Only data entered since November 1983 have been subjected to any rudimentary edit/bounds checking. Agencies entering data since this date can elect to override the edit/bounds checking for individual observations. USGS WATSTORE water quality data is entered into STORET without any EPA edit/bounds checking to ensure data integrity between WATSTORE and STORET. Unfortunately, during the course of our pilot tests, erroneous USGS and EPA water quality data values were discovered. In order to eliminate as much "bad" data as possible, all water quality data downloaded from STORET was subjected to automatic edit/bounds checking (STORET Edit Criteria contained in Appendix C) for the 190 most common parameters. Observations falling outside the STORET Edit Criteria were documented (See the Water Quality Observations Outside STORET Edit Criteria for Park section in the Water Quality Results chapter) and then retained or discarded from the database and all tables and plots based on whether the value was judged as being in the realm of possibility. Although the STORET Edit Criteria screen likely removed some "bad" data for these common parameters, the probability of other erroneous data in the database is high. Be sure to consult the Caveat section in the Introduction.

Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product):

Screening Category	Data Download	Overview Tables	Inventory Tables	Annual Tables	Seasonal Tables	Standards Tables	Plots (All)
STORET Edit Criteria	yes	yes	yes	yes	yes	yes	yes
Date	yes	yes	yes	yes	yes	yes	yes
Station Type	yes	yes	yes	yes	yes	yes	yes
Phase 0 Parameter	yes	yes	yes	yes	yes	yes	yes
Phase 1 Parameter	no	no	yes	yes	yes	yes	yes
Media Type	no	no	yes	yes	yes	yes	yes
Remark Codes	no	no	yes	yes	yes	yes	yes
Composite Type	no	no	yes	yes	yes	yes	yes
Phase 2 Parameter	no	no	no	no	no	no	yes
Observations/Period of Record	no	no	no	yes	yes	no	yes

Date Screen

Every water quality observation in STORET typically has a sampling date associated with it. Unfortunately, STORET does not prevent users from entering incorrect dates. Consequently, any water quality observation with an incorrect and/or suspect date (eg. a month greater than 12; a day greater than 31; or a sample date later than the STORET retrieval date) were discarded.

Station Type Screen

STORET contains data from a wide variety of stations classified by the type of waterbody in which samples were collected. As this project's purpose was to inventory and analyze surface-water quality, the following surface-water station types were retrieved (clarification provided in parentheses):

Station Types Included In Retrieval

- (a) STREAM
- (b) CANAL
- (c) LAKE
- (d) RESERV (Reservoir)
- (e) SPRING
- (f) FWTLND (Fresh Water Wetland)
- (g) SWTLND (Salt Water Wetland)
- (h) ESTURY (Estuary)
- (i) OCEAN

Ground water and/or other station type data may have been retrieved if the entering agency classified the station type incorrectly. Rectifying this error was beyond the scope and resources of this project.

Phase 0 Parameter Screen

Nearly all water quality parameters associated with each station type listed above were retrieved. The only exception to this was the exclusion of most of the STORET administrative parameters. A complete list of STORET administrative parameters is included in Appendix D. The few administrative parameters that were included in the retrievals are as follows:

Code	STORET Administrative Parameter Description
00027	Code No. for Agency Collecting Sample
00028	Code No. for Agency Analyzing Sample
00063	Sampling Points, Number of In a Cross Section
00111	Ratio of Fecal Coliform to Fecal Streptococci
00115	Sample Treatment Code (1=Raw, 2=Treated)
34772	NPDES Number, Cross Reference
45580	Method of Analysis
74065	Stream Flow Class
74066	Annual Runoff
74067	Soil Classification
74068	Water Quality Designated Use Classification

Phase 1 Parameter Screen

Some of the data retrieved from STORET was not suitable for statistical or graphical analysis. Consequently, this screening criterion eliminated all parameters which were not suitable for statistical or graphical analysis within the context of this project. The full list of these parameters is presented in Appendix E. Examples of parameters excluded from statistical and graphical analysis include the administrative parameters mentioned above, land use acreage, encoded values, dates, latitude/longitude, etc. Excluded parameters do, however, appear in the Parameter Period of Record and Station/Parameter Period of Record (two of the "Overview" Tables), as well as in the water quality parameter file included on disk(s) accompanying this report.

Media Type Screen

Water quality samples can be taken in a variety of aqueous media. Water quality data were retrieved from STORET only if the media were WATER or VERT (vertically integrated). WATER and VERT samples comprise the overwhelming majority of samples in STORET. The media screen eliminated the following water quality sampling media:

Media Screen	Description
BOTTOM	Sampled At the Bottom
DREDGE	Sampled By Dredge
PORE	Pore Sample
CORE	Core Sample

Remark Code Screen

STORET enables the agency collecting water quality samples to provide a qualifying remark for each parameter observation. These remarks provide additional information about the measured or observed value entered into STORET (See Appendix B - Parameter Data File for a complete listing and description of all remark codes). Based on the STORET remark codes, two potential screens were applied to water quality observations based on whether the measured value was used in subsequent analyses: (1) Elimination or (2) Modification/Inclusion.

Elimination:

Non-composite water quality parameters with the remark codes presented in Table B were eliminated from the period of record, annual, and seasonal descriptive statistics and graphics. Not including observations with these remarks was justified by the fact that most of the remarks: (A) indicate either less confidence in the measured value; (B) are remarks for nominal or categorical data that doesn't lend itself to statistical analysis; or, (C) complicate the statistical analysis beyond the scope of this effort. Observations containing these remark codes comprise a very small fraction of the data. Although statistical analyses weren't undertaken on this data, all water quality observations, regardless of remark code, are included on disk(s) accompanying this report. If you reanalyze this data in order to replicate the results presented here, be sure to eliminate all non-composite observations with the remark codes presented in Table B.

Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis:			
Remark Code	Description of STORET Remark Code		
F	Female Species.		
J	Estimated, Not the Result of Analytic Measurement.		
М	Presence Verified, But Not Quantified, Below Quantification Limit. For Species, Male. For Oxygen Reduction Potential, Indicates Negative Value.		
N	Presumptive Evidence of Presence.		
О	Analysis Lost.		
V	Analyte Was Detected In Sample and Method Blank.		
W	Less Than Lowest Value Reportable Under Remark "T".		
Z	Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value.		

Modification/Inclusion:

Water quality parameter observations with the remark codes presented in Table C were halved prior to inclusion in period of record, annual, and seasonal descriptive statistics and graphics. These remark codes deal with observations that were below the detection limit for the parameter. The common water quality data analysis convention for these remark codes is to use half of the detection limit in statistical analyses (Ward, Loftis, and McBride 1990; Gilbert 1987). Although this is a somewhat defensible treatment of observations below the detection limit, the statistics that may be computed using these halved values may not be defensible. Consequently, any computed statistics in inventory, annual, or seasonal tables that are comprised of 50% or more K, T, and U remark codes are footnoted "Computed with 50% or more of the total observations as values that were half the detection limit." This will provide the user with some caution in using and interpreting these results. Water quality data included on disk(s) accompanying this report that may have these remark codes are stored as the original entry (detection limit). If you re-analyze this data in order to replicate the results presented here, be sure to substitute half the detection limit value in the database whenever these remark codes are encountered.

Table C. The Value of Water Quality Parameters With the Following Remark Codes Were Halved (Half of the Detection Limit Entered In STORET) Prior to Inclusion In Descriptive Statistics and Graphics:			
Remark Code	Description of STORET Remark Code		
K	Off-scale Low, Actual Value Not Known, But Known to Be Less Than Value Shown.		
T	Less Than Detection Criteria.		
U	Analyzed For But Not Detected, Value is Detection Limit For Process Used. If Species, Undetermined.		

Composite Type Screen

Sometimes data entered in STORET represent something other than a single measurement at one location at one point in time. These samples are typically referred to as composite samples due to the fact that they vary temporally and spatially. Consequently, the observation entered into STORET for composite data is typically a computed value that summarizes the data over time and/or space. Such data complicate statistical and graphical analyses and must be handled separately. Such treatment was beyond the scope of this study; although composite values typically represent only a fraction of STORET observations. The composite type screen eliminates all composite observations from statistical and graphical analyses, except those with a composite type code of "A" that have a one day or less sampling period and those with a composite type code "D". All water quality observations, regardless of composite type code, are included on disk(s) accompanying this report. If you reanalyze this data in order to replicate the results presented here, be sure to exclude all composite observations except those with a code of "A" that have a one day or less sampling period and those with a code of "D". Table D presents a list of possible STORET composite type codes.

Table D. Possible STORET Composite Type Codes			
Composite Type Code	STORET Composite Type Description		
A	Average		
Н	Maximum		
L	Minimum		
N	Number of Observations		
#	Number of Observations		
S	Standard Deviation		
U	Sum of Squares		
V	Variance		
С	Coefficient of Error		
X	Coefficient of Variance		
Е	Skewness		
F	Kurtosis		
Z	Number of Obs. That Exceed An Established Limit		
%	Precision		
\$	Accuracy		
В	N/A		
D	Indicates Replicate Sample		

Phase 2 Parameter Screen

Due to budgetary limitations, the number of graphical plots (time series, annual and seasonal box-and-whiskers) produced had to be manageable - typically no more than 100 total plots. After scrutinizing the results of the pilot tests and the Baseline Water Quality Data Inventory and Analysis Reports produced for the first group of parks, the 19 parameters which, typically, were the most frequently measured at nearly all stations were water temperature, stage, discharge, and various meteorological measurements (See Table E). Consequently, most of the graphical plots produced would be of water temperature, stage, discharge, and meteorological conditions. Although these are important parameters, particularly in conjunction with other water quality parameters, it was felt that plotting resources would be better allocated to other water quality parameters. Consequently the STORET parameter codes listed in Table E never generated graphical plots. It is important to note, however, that these parameters are included in all other aspects of the project, including all applicable period of record, annual, and seasonal descriptive statistics tables.

Table E. Frequently Measured STORET Codes That Were Prevented From Generating Plots		
STORET Parameter Code	STORET Parameter Description	
00003	Sampling Station Location, Vertical (Feet)	
00010	Water Temperature (Degrees Centigrade)	
00020	Temperature, Air (Degrees Centigrade)	
00021	Temperature, Air (Degrees Fahrenheit)	
00025	Barometric Pressure (MM of HG)	
00032	Cloud Cover (Percent)	
00035	Wind Velocity (Miles Per Hour)	
00036	Wind Direction in Degrees from Trun N (Clockwise)	
00040	Wind Direction (Azimuth)	
00045	Precipitation, Total (Inches Per Day)	
00046	Precipitation, Total (Inches Per Week)	
00052	Humidity, Relative (Percent)	
00061	Stream Flow, Instantaneous (CFS)	
00065	Stream Stage (Feet)	
81903	Depth of Bottom of Water @ Sample Site (Feet)	
82553	Rainfall In 1 Day Inclusive Prior to Sample (Inches)	
82554	Rainfall In 7 Days Inclusive Prior to Sample (Inches)	
82371	Rainfall In 3 Days Inclusive Prior to Sample (Inches)	
82372	Rainfall In 14 Days Inclusive Prior to Sample (Inches)	
85599	Precipitation, Total/Period-Rain Equivalent (Cm/Sample)	

Observations/Period of Record Screen

Despite never plotting water temperature, stage, discharge, and meteorological measurements, the number of plots generated by some parks still exceeded the 100 plot limit. Also, some rationale was needed to plot only those parameters with sufficient data density to make a meaningful statistical graphic. For example, time series plots comprised of only a few observations or annual or seasonal box-and-whiskers plots with limited observations and/or data in only one or two years or seasons are not very informative. Consequently, a number of plotting criteria were developed to limit the number of time series and box-and-whiskers plots to, at most, 100 informative graphics by using each parameter's number of observations and period of record. Similar, albeit less stringent criteria, were used for including results of annual and seasonal analyses in descriptive statistics tables. Consequently, there are more summaries of annual and seasonal results in tables than in graphics. Whenever an entry in an annual or seasonal table generated a plot, this entry was footnoted to notify the reader of the presence of the graphic. Due to differing quantities of data at parks, different screening criteria were employed. The same

criteria for appearance in seasonal and annual tables were used for all parks. Table F presents the least stringent plot screens.

Table F. Least Stringent Plot Screening Criteria Used to Limit the Number of Plots Generated

Time Series:

To generate a time series plot, a station/parameter combination must have a period of record of at least 2 years and a total of at least 8 observations.

Annual Analysis:

To generate an annual box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.

Seasonal Analysis:

To generate a seasonal box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

The exact three plot screens used varied by park unit and are documented in the Overview section of the Water Quality Results chapter. If your park's plotting criteria deviated from these least stringent criteria, it is because too many plots would have been generated using these criteria.

The criteria used for appearance of station/parameter combinations in annual and seasonal analysis tables are presented in Table G. These tabular criteria, which are actually the least stringent plotting criteria, were constant from park to park.

Table G. Criteria Used for Generating Entries in Annual and Seasonal Analysis Tables

Annual Analysis:

For an entry to appear in an annual table, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.

Seasonal Analysis:

For an entry to appear in a seasonal table, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

Statistical Definitions

Since this report is intended only to characterize historical and/or existing water quality at the park rather than address specific water quality problems, only simple descriptive statistics are presented. Inferential and non-parametric statistical analysis to examine relationships and trends were beyond the scope of the study. The complete water quality dataset is provided on disk accompanying this report to afford the opportunity for more detailed exploratory data analysis. The descriptive statistics are included in the inventory, annual, and seasonal tables. Table H provides a brief definition of each descriptive statistic provided for each parameter at a station.

Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

Observations: The number of samples collected.

Median: The median is the 50th percentile or the value in a dataset sorted in

ascending order that exceeds 50% of all observations, yet is also exceeded

by the remaining 50% of all observations.

Mean: The sum of all observations collected divided by the number of

observations.

Maximum: The maximum value observed.

Minimum: The minimum value observed.

Variance: This is a measure of variability or dispersion of the observations; or, in other

words, describes how many observations are close (or far), from the mean. It is calculated as the weighted average of the squared deviations from the

mean.

Standard

Deviation: The positive square root of the variance.

10th Percentile: The value in a dataset sorted in ascending order that exceeds 10% of all

observations, yet is itself exceeded by the remaining 90% of all

observations.

25th Percentile: The value in a dataset sorted in ascending order that exceeds 25% of all

observations, yet is itself exceeded by the remaining 75% of all

observations. The 25th percentile is also known as the first quartile.

75th Percentile: The value in a dataset sorted in ascending order that exceeds 75% of all

observations, yet is itself exceeded by the remaining 25% of all

observations. The 75th percentile is also known as the third quartile.

90th Percentile: The value in a dataset sorted in ascending order that exceeds 90% of all

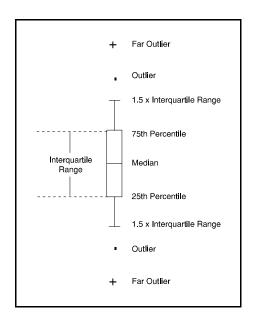
observations, yet is itself exceeded by the remaining 10% of all

observations.

As with the tabular descriptive statistics, the scope of the project limited the generation of exploratory graphics to time series plots and annual and seasonal box-and-whiskers plots. Plots were only generated, however, provided the parameter met or exceeded the relevant plotting criteria specified in the previous section.

Time series plots display the parameter concentration on the Y-axis and the date on the X-axis. This provides the user with a visual feeling for not only the parameter's concentration and variability over time, but also the density of data in different time periods. The time series plots provide a visual representation of the data in the basic station inventory. Due to software limitations, a line connects each measured value in sequence regardless of the time period between samples. Readers are cautioned not to assume that the concentration of the parameter between any two data points can be represented by a straight line. It is likely that the concentration varied between any two observations, particularly if the observations are separated by a significant time period.

The annual and seasonal box-and-whisker plots provide a graphical overview of the measured data and give the user a better understanding of the data's distribution and possible outliers. In essence, the box-and-whisker plots provide a visual representation of the data contained in the annual and/or seasonal tables. The interpretation of the boxes is provided in the figure to the right. Each box encompasses the middle 50 percent of measured values (from the 75th to 25th percentiles). The difference between the 75th and 25th percentiles is also known as the interquartile range. The horizontal line inside each box is the median or 50th percentile. The lines which extend out from each end of the box are the whiskers. The whiskers extend out from first quartile (25th percentile) and third quartile (75th percentile) to the smallest data point within 1.5 interquartile ranges from the first and third quartiles. Observations that extend beyond the whiskers are known as outliers. Far outliers are observations whose values lie more than three interquartile ranges below the first quartile or above the third quartile. These are designated with plus signs.



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

This interpretive guide discusses each of the products presented in the next chapter - Water Quality Results. This chapter highlights how each of the tables and figures were prepared and how they can be used. Each subheading in this chapter corresponds to a particular product in the subsequent Water Quality Results chapter.

Overview

The Overview provides a brief one-page summary of the results of the various database retrievals for both the study area and the park. The study area results include the park results since the study area encompasses the park and all lands and waters within at least 3 miles upstream and 1 mile downstream of the park. Thus, the GIS estimated acreage of the study area should always be greater than the park acreage. The park acreage was computed from the digital boundary that was obtained for the park. More than likely this acreage will differ, perhaps significantly, from the "official" published acreage for the park due to the spatial and temporal accuracy of the digital boundary, treatment of inholdings, and other concerns. The number of STORET stations is the number of locations within the study area and park where an agency monitored (or intended to monitor) water quality. The number of stations with no data reveals the number of stations created in STORET for which water quality data were never entered. The number of stations with no statistical analysis reports the number of stations in the study area and park that contain data not amenable to normal parametric statistics. The number of longer term stations indicates the number of stations in the study area and park with at least 6 parameters having periods-of-record extending 2 years with an average of at least 1 observation per year over the period-of-record. The date of STORET retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. Thus, the report documents all data entered in STORET prior to the retrieval date. Keep in mind that an agency can upload archival data at any time. Consequently, a retrieval date only guarantees that as of that date, this report contains all the data that had been entered into STORET. The period of record is the earliest date for which water quality data exist in STORET for the study area and park up to the date when the most recent data were entered prior to the retrieval date. The number of parameters measured is the number of unique water quality parameters measured within the study area and park and entered in STORET. The number of water quality observations is the sum of the total number of observations across all parameters within the study area and park. The number of industrial/municipal facilities discharges, drinking water intakes, water gages, and water impoundments are the number of each of these entities found within the study area and park. The number of time series, annual, and seasonal plots are the number of these different types of graphics produced by station/parameter combinations within the study area and park using the plotting criteria described in the previous chapter. The hydrologic seasons, described below, are the seasons used for the seasonal water quality data analysis. The time series, annual, and seasonal criteria are the plot and tabular screening criteria described in the previous chapter.

Regional Location Map

The Regional Location Map provides a small scale, general representation of the park and study area location within the United States. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report.

Water Quality Monitoring Locations Map(s)

The Water Quality Monitoring Locations Map(s) usually provides a larger scale representation of the park and study area than the Regional Location Map. This map indicates the locations within the study area where water quality has been monitored and the data entered into STORET. The water quality monitoring stations are labelled sequentially with the rightmost significant digits. The station names were assigned in numerically ascending order by latitude (for parks with a greater north-south extent than east-west) or longitude (for parks with a greater east-

west extent than north-south). Thus, this map serves as a visual index to the water quality data contained in the report. Since the 1:100,000 scale hydrography (from the River Reach File Ver. 3.0 or other sources) is displayed on the map, users can refer to the map to locate the station number on the reach in which they are interested and then find the appropriate section in the report that documents the water quality at that station. If the scale allows, USGS catalog units are also displayed on the map to provide an approximation of drainage basins. More than one Water Quality Monitoring Location map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report. The digital, geo-referenced data files documented in Appendices A and B will allow the park to create water quality monitoring stations as a coverage in their GIS.

Dischargers, Drinking Intakes, Gages, and Impoundments Map(s)

The Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) displays the same information as the Water Quality Monitoring Location Map(s) except the water quality stations are replaced by industrial/municipal facilities discharges, drinking water intakes, active and inactive gage locations, and water impoundments. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, gage, or impoundment. This number can then be used to obtain additional information about the entity on the following page of the report or to refer to the more detailed database files accompanying the report on disk. These more detailed database files are geo-referenced (See Appendices A and B), thus allowing the park to create these coverages in their GIS. More than one Dischargers, Drinking Intakes, Gages, and Impoundments map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are also included on the disk(s) accompanying this report.

Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table

This table provides some additional information about each of the discharges, drinking intakes, water gages, and water impoundments displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address or some other indication of location; and some other pertinent information. More detailed information about each of these entities is contained in the database files on disk accompanying the report (See Appendices A and B).

Representative Mean Annual Hydrograph for Seasonal Analysis

One component of the water quality data analysis contained in the document is a seasonal analysis of the data (where adequate data exist). In order to undertake this analysis, some representation of the park's seasons was required. Seasons can be based on many factors (eg. hydrologic, climatic, recreational use, etc.). Since project resources did not allow us to contact every park and discuss with resource management staff what appropriate seasons may be for the park, WRD staff elected to adopt primarily a hydrologic/climatic definition of the seasons which uses a process of hydrograph separation to glean seasons from stream discharge patterns. The procedure employed to make these determinations was as follows:

(1) Find the nearest USGS Hydro-Climatic Data Network (HCDN) station (U.S. Geological Survey 1992) to the park that is most representative of streamflow conditions at the park. The HCDN is basically a subset of USGS streamflow stations, including only those stations that are unaffected by artificial diversions, storage, or other disruptions of the natural channel. All HCDN stations generally have at least a 20 year period of record. Consequently, discharge patterns at these stations should reflect only hydrologic and climatic influences. For the most part, selected HCDN sites were typically within 15-20 miles of the park. In some parks where WRD staff were aware of the existence of a stream gage located within the park that would be more representative of park waters even though it wasn't an HCDN site, this gage was selected.

- (2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.
- (3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

This approach, used for the majority of parks, assumes that most water quality data at the park will be found in streams and that the discharge pattern of the selected stream is representative of the seasons for all park waterbodies. Although this assumption may be weak for certain parks, project resources did not allow a more thorough investigation. For parks where there wasn't any stream gage (HCDN or otherwise) deemed representative of park waters, precipitation records from a nearby meteorological station were obtained from the National Climatic Data Center. Plotting daily average precipitation and box-and-whiskers of monthly precipitation sums allowed WRD hydrologists to make a rough approximation of climatic seasons for use in analyzing the water quality data.

Again, it is important to note the many ways of defining "seasons" and thus the limitations of the seasonal analysis contained in this document. For certain parks it may be more useful to perform a seasonal analysis with seasons defined by recreational use patterns or some other natural or anthropogenic factor. This option is available to the park since all the water quality data analyzed in this document is contained on disk(s) accompanying this report. Digital, reproducible copies of this seasonal analysis graphic are also included on the disk(s) accompanying this report.

Contacts for Agency Codes Retrieved

This table provides a list of the organizations who have entered data into STORET. A contact name at the organization and a phone number are also supplied. The agency code in the first column is the key for identifying which stations belong to that agency. This code will appear in the first line of each station's inventory. Although the agencies listed in this table are potential partners for future water quality monitoring or management endeavors, don't be surprised if the name of the contact and/or the telephone number is out of date. This information is entered when an agency first creates a station. The agency may not update this information when the initial contact moves on or the telephone number changes. Nonetheless, it is likely that the contact or someone else at the agency may be able to provide you with project reports or other information relative to the agency's data. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Quantity of Data Retrieved by Agency Code

This table displays the period-of-record; numbers of water quality stations, longer-term stations, and stations without data; total number of water quality observations; and the number of unique water quality parameters measured by each agency within the study area and park boundary. Using this table, a park can quickly determine which agencies collect the most data in and around the park and whether they have monitored recently. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station Period of Record Tabulation

The Station Period of Record Tabulation provides a quick overview of the names of all the stations within the study area where water quality has been monitored and data entered into STORET. It also furnishes the total number of observations taken at each station and the frequency of observations between certain dates: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75. The station identification number, the four character park abbreviation code followed by a four digit number, provides the means to jump from a particular station in the table to the statistical and graphical analyses for this station contained in the Station-By-Station Results section. The Station Period of Record Tabulation reveals which water

quality stations were situated within the park as defined by the park's GIS boundary. The Station Period of Record Tabulation also footnotes longer-term water quality stations. Longer-term stations are those that have at least 6 parameters with an average of one or more observations per year for those parameters during a period of record extending at least two years. Note that although a station may not be flagged as longer-term, it can still harbor much important data (albeit for only a few parameters or over a very long term with just a few observations). A digital copy of this table accompanies this report on disk (See Appendices A and B).

Parameter Period of Record Tabulation

The Parameter Period of Record Tabulation provides a complete listing of every water quality parameter ever measured in the study area and entered into STORET. This table is a summation of all the water quality observations for each parameter across all stations in the study area. Like the Station Period of Record Tabulation, the total number of observations for each parameter and the frequency of observations between: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75 are provided. This table is handy for quickly assessing whether particular parameters have been measured in the study area. The Parameter Period of Record Tabulation also shows how many in-park (and total) water quality stations contained data for each parameter. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station/Parameter Period of Record Tabulation

The Station/Parameter Period of Record Tabulation combines the information found in the Station Period of Record Tabulation and the Parameter Period of Record Tabulation. This table provides a listing of all the stations where a particular water quality parameter was measured in the study area and the data entered into STORET. The table provides the start and end dates of the period of record of each parameter at each station; the number of years of measurement (computed from the start and end dates); whether the station/parameter combination occurred within the park boundary; the total number of observations for each parameter at each station, and whether a time series (T), annual (A), and/or seasonal (S) plot was generated for the station/parameter combination in the Station-By-Station Results section. This table is very useful when you need to determine at which locations within the study area (or park) particular parameters were monitored and how much data was collected there. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Station/Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station-By-Station Results

Probably the most voluminous portion of the document is the Station-By-Station Results. Here the results of the water quality analyses for each station are presented in sequence. The results include the station inventory; parameter inventory; EPA water quality criteria analysis; and, as applicable, time series graphics and annual and seasonal tables and box-and-whiskers graphics. Each of these products are discussed below.

Station Inventory for Station

Each station's data commences with its Station Inventory. The Station Inventory provides the descriptive attributes about each water quality monitoring station contained in STORET. This includes a variety of locational information such as a verbal description, the Federal Information Processing codes for county and state, latitude and longitude, and other items; the station type (stream, spring, estuary, etc.); monitoring agency; creation date; indices to the River Reach File; whether the station lies within the park boundary; and several other attributes. This water quality station location data is also contained on disk(s) accompanying the report (See Appendices A and B).

Parameter Inventory for Station

Following the descriptive attributes about a station is the Parameter Inventory for the station. The Parameter Inventory provides a complete inventory and descriptive summary of all the water quality parameter data for the station. This table furnishes the parameter STORET code and name; the period of record for this parameter at this station; and the descriptive statistics defined in the Statistical Definitions in the previous chapter. Three different footnotes can appear on a parameter's descriptive statistics. Two asterisks (**) in the 10th, 25th, 75th, or 90th percentile columns indicates that there was insufficient data to compute these statistics for this parameter. Percentiles were not computed unless the parameter had at least 9 observations. Two number signs (##) next to the number of observations indicates that more than 50 percent of the observations entered into the computations as values that were taken to be half the detection limit. Caution should be employed in interpreting and using statistical results when more than half the values are set to half the detection limit. The letter "p" following a numeric STORET parameter code in the Parameter Inventory indicates that a time series plot was produced for this parameter at this station. Digital, reproducible copies of the Parameter Inventory tables are contained on the disk(s) accompanying this report.

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from $\mu eq/l$ H⁺; and (3) $\mu eq/l$ H⁺. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to $\mu eq/l$ H⁺ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu eq/l$ H⁺, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

Whenever a bacteriological parameter appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original bacteriological entry; (2) an entry computed using the log of each measured value; and (3) an entry that simply reports the geometric mean. The reason for converting to logs and displaying the geometric mean is convention. Bacteriological water quality standards typically reference the geometric mean rather than the arithmetic. The three bacteriological entries in the descriptive statistics tables will all have the same STORET code.

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. In most cases, the EPA water quality criteria values are single sample concentrations that can be directly compared to single sample STORET entries. There are, however, two notable exceptions to this single sample/single value comparison: ammonia and fecal-indicator bacteria. For these two parameters, criteria are either derived from or depend on the results of other chemical characteristics of the water or require a time series statistical treatment of multiple samples to determine whether the criterion has been exceeded. The EPA ammonia criterion is pH and temperature dependent. To calculate the criterion for each ammonia sample value was beyond

the scope of this project. Consequently, ammonia criteria were not included in Appendix F or the EPA Water Quality Criteria Analyses. Un-ionized ammonia criteria can be determined from formula table values included in the EPA Silver Book (Environmental Protection Agency 1995).

For the purposes of this project, fecal-indicator bacteria data were flagged as exceeding criteria when their concentrations exceeded 200, 1000, 126, and 33 (fresh)/35 (salt) colony forming units or most probable number for single samples of fecal coliform, total coliform, <u>E. coli</u>, and enterococci, respectively. These values represent only approximations of the criteria for primary contact recreation waters where criteria are typically expressed in terms of a geometric mean computed with no less than 5 samples during a given month. When a fecal-indicator bacterial observation exceeds a criterion in the EPA Water Quality Criteria Analysis section, the reader should refer to the corresponding geometric mean calculations in the preceding Parameter Inventory. Long-term geometric means that exceed the respective water quality criteria for multiple samples are more indicative of chronic bacteriological problems than single sample values.

Water quality observations carrying non-detection or below-detection limit remark codes (K, T, and U) required special treatment in the EPA Water Quality Criteria Analysis. As with the statistics in the Parameter Inventory, half the detection limit was the value used in the EPA Water Quality Criteria Analysis. For certain observations, however, half the detection limit may exceed a water quality criterion. For those observations it would be inappropriate to classify them as exceeding a criterion since the actual value wasn't known. Thus, it was decided that any below detection limit or non-detect observations that exceed a water quality criterion using half the detection value would be excluded from the EPA Water Quality Criteria Analysis. If non-detect or below detection limit values are excluded from the EPA Water Quality Criteria Analysis for a particular parameter, the total observations for that parameter will be footnoted with an ampersand (&). This will also explain the difference between the total observations in the Parameter Inventory and the EPA Water Quality Criteria Analysis. Non-detect or below detection limit values are included in the EPA Water Quality Criteria Analysis, however, if half the detection limit doesn't exceed the parameter's criterion.

The EPA Water Quality Criteria Analysis for each station lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis table is a good starting point for assessing potential water quality problems at the station, the reader is strongly encouraged to read the caveat section in the Introduction concerning drawing conclusions about water quality problems from this table. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Time Series Plots for Station

Following the EPA Water Quality Criteria analysis will be any Time Series Plots for each parameter that met the time series plot screening criterion selected for the park unit. If a time series plot is generated for a particular parameter at a station, a "p" will appear next to the STORET parameter code in the Parameter Inventory. If no time series plots are present for the particular station, the data did not meet the time series screening criterion listed in the Overview section of the Water Quality Results chapter. The x-axis on these plots is the period of record, listing only the 2-digit calendar year for clarity (i.e. 1983 is presented as 83). The y-axis is the concentration of the selected parameter in its measurement units. In general, the units for a given parameter are given either on the y-axis or in the parameter description in the subtitle of the graph. Subtitle and/or y-axis parameter descriptions may be truncated on the plots so as to not exceed the maximum number of plotting characters. Y-axis values less than zero are sometimes shown for better representation of the entire plot. The station identification code, parameter description, and parameter STORET code are presented in the main title. The footnote provides a descriptive location name. Observations on the plot are represented as squares. Lines are drawn connecting each successive observation. As mentioned previously in the Statistical Definitions section of the Methodology chapter, the interconnecting line is drawn only for ease of reading and provides no indication of what the actual parameter

values were between the two observed measurements. Digital, reproducible copies of all time series plots accompany the report on disk (See Appendices A and B).

For time series plots of pH, the original pH values are plotted. For time series plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a time series plot for bacteriological parameters is log-linear.

Annual Analysis for Station

If more than 9 observations exist in each of at least 4 years for a particular parameter at a station, an Annual Analysis table will be generated. Entries will be made in the table for each parameter having more than 9 observations in each of at least 4 years. The Annual Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by year, rather than the entire period of record. Although some of the years may not contain 9 observations, these years still have an entry in the table. A parameter needs only to have 9 observations in any 4 years of its period of record to qualify for the Annual Analysis table. Like the Parameter Inventory, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Annual Analysis table that also meet the annual analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Annual Box-and-Whiskers Plots for Station

Entries in the Annual Analysis table that meet the annual box-and-whisker plot screening criterion will generate Annual Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each year of the period of record, even if less than 9 observations were recorded in the year. The axis labeling and plot titling is the same as for the time series plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For annual box-and-whiskers plots of pH, μ eq/l H $^+$ are plotted. For annual box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of an annual box-and-whiskers plot for bacteriological parameters is log-linear.

Seasonal Analysis for Station

As explained above, a park's hydrologic seasons for seasonal water quality analysis were determined using a process of hydrograph separation and other techniques. If a parameter has more than 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years, a Seasonal Analysis table will be generated for the station. The Seasonal Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by season, rather than the entire period of record. Although certain parameters for a season at a station may not contain 9 observations, these parameters can still have an entry in the table. A parameter needs only to have 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years to qualify for the Seasonal Analysis table. Consequently, some of the parameters could have fewer than 9 observations in a particular season but still generate a table entry. Like the Parameter Inventory and Annual Analysis, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Seasonal Analysis table that also meet the seasonal analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are labeled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labeled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labeling and plot titling are the same as for the time series and annual box-and-whiskers plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For seasonal box-and-whiskers plots of pH, μ eq/l H⁺ are plotted. For seasonal box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a seasonal box-and-whiskers plot for bacteriological parameters is log-linear.

EPA Water Quality Criteria Analysis for Entire Park Study Area

This table essentially summarizes all the individual station-by-station EPA water quality criteria analyses in the study area. (Refer to the EPA Water Quality Criteria Analysis for Station section above for more detailed information on the treatment of special cases in the EPA Water Quality Criteria Analysis for Entire Park Study Area.) This table presents a comparison between the study area's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. The EPA Water Quality Criteria Analysis for the Entire Park Study Area lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis for the Entire Park Study Area is a good starting point for assessing potential water quality problems at the park, the reader is strongly encouraged to read the caveat section in the Introduction before drawing conclusions about water quality problems from this table. A digital, reproducible copy of this table accompanies the report on disk (See Appendices A and B).

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

One of the objectives of this Baseline Water Quality Data Inventory and Analysis project is to perform an IDEA - an Inventory Data Evaluation and Analysis - to determine the presence and/or absence of Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in the park's study area. The Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service (National Park Service 1993) identified the basic water quality parameters displayed in Table I as the parameters that all parks must have for "key" waterbodies (determined on the basis of size, uniqueness, threats, etc.) within park boundaries. Since these parameters can be measured in different ways and with different units, there are multiple STORET codes associated with each parameter; hence the concept of parameter groups. The Strategic Plan distinguishes between those parameter groups required for all parks and parameter groups required only on a case-by-case basis.

The IDEA basically compares the parameters listed in the Parameter Period of Record Tabulation and Station/Parameter Period of Record Tabulation with the "Level I" Servicewide Inventory and Monitoring water quality parameter groups, listed in Table I and in Appendix G, and notes, not only the presence or absence of each parameter group, but the total number of observations for each parameter present in the group; the number of

observations between certain time periods; and the total number of stations within the study area at which the parameter was measured. The total number of different (unique) stations measuring parameters for the group is in parentheses on each parameter group's summary line.

The first page of the IDEA lists the missing Servicewide Inventory and Monitoring Program "Level I" groups. If a parameter group appears on this list, no data for any of the parameters defining the group (See Appendix G) was retrieved for it within the study area. So-called non-priority parameter groups may appear in the missing list. Non-priority parameters are park-specific parameters (case-by-case) which may not be applicable to your park. Consequently, if you believe a particular parameter, not included in IDEA (See Appendix G), to be important for your park, you will have to consult the Parameter and Station/Parameter Period of Record Tabulations to determine the presence or absence of this parameter for the park. Although considered a "Level I" parameter, biological data, obtained through rapid bioassessment or other means, is not considered in this report which deals specifically with surface water chemistry. Following the Missing Level I Group list is the Present Level I Group list which displays the summary results for each Servicewide Inventory and Monitoring "Level I" water quality parameter group that was found.

Table I. Basic "Level I" Water Quality Parameters Identified as Required and Optional By the Servicewide Inventory and Monitoring Program for "Key" Park Waterbodies

Required Parameter Groups:

- (1) Alkalinity
- (2) pH
- (3) Conductivity
- (4) Dissolved Oxygen
- (5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates)
- (6) Temperature
- (7) Flow

Case-By-Case Parameters Groups:

- (8) Toxic Elements
- (9) Clarity/Turbidity
- (10) Nitrate/Nitrogen
- (11) Phosphate/Phosphorus
- (12) Chlorophyll
- (13) Sulfates
- (14) Bacteria

The last page of the IDEA summarizes the information from the Missing and Present Level I Group lists. This page provides information on the temporal and spatial distributions of the data. Included in this table are the total number of observations for each parameter group; the number of observations since January 1, 1985; the percent of the total observations since January 1, 1985; the number of stations measuring each parameter group; the percent of the total number of stations with data measuring the parameter group; the number of observations per station with data; the period-of-record for this parameter group; and the average number of observations per year of the period-of-record.

In interpreting the results of the IDEA, the reader should first consult the Missing Level I Group list. For the parameter groups listed, there was no baseline water quality data within the study area entered in STORET. Consequently, these parameter groups could be a higher priority for data collection. It is important, however, to realize that data within these parameter groups may have been already collected but not entered into STORET. The resources for this project did not enable us to pursue thorough literature and file cabinet reviews to dredge up

every last iota of data. If data exists for certain Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in a park's file cabinet, it is the park's responsibility to factor that data into their IDEA. Consequently, the listing of a parameter group on the Missing "Level I" Group list is not a WRD endorsement to launch a study to collect these data. The IDEA is intended to simply note that no data exist for these parameter groups in STORET for the park. It is the park's responsibility to ascertain whether such data has already been collected by the park or other entities before embarking on a new study. In fact, in the future the WRD will require that any park study plan proposing to collect baseline water quality data show that they have consulted their Baseline Water Quality Data Inventory and Analysis report and searched in other locations (file cabinets, published literature, etc.) for the data they propose to collect. A similar interpretation springs from the Present "Level I" Group list. Insufficient data density in certain time periods for particular parameter groups is not necessarily cause for launching a new inventory and/or monitoring program. The park should still consult with other potential sources of data. Again, the IDEA is designed to provide only a quick check on data in STORET for the Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups.

Water Quality Observations Outside STORET Edit Criteria for Park

STORET data entered after November 1983 were subjected to rudimentary edit/bounds checking for 190 common parameters (See the STORET Edit Criteria in Appendix C). None of the data entered into STORET prior to that time has been subjected to edit/bounds checking. Moreover, to maintain exact comparability with USGS WATSTORE data, WATSTORE data entered into STORET has never been subjected to the EPA edit/bounds checking. During the pilot test phase of this project, obviously incorrect data was identified from both USGS and other agency data in STORET. As a consequence, all data downloaded from STORET was filtered through the STORET edit criteria to identify parameter observation values that fall outside any edit criterion ranges. This section documents the station name, parameter, date, time, parameter value, agency, and STORET station name of every observation that fell outside the range of an edit criterion. Not all data falling outside an edit criterion are necessarily incorrect. Such data may represent unique or special conditions. Consequently, every observation falling outside a STORET edit criterion was scrutinized to determine, in our best professional judgement, whether the value was in the realm of possibility or obviously incorrect. Water quality observations that appeared to be obviously incorrect are marked with an "X" in the Disposition column of this table. These values were not retrieved or included in any of the inventory tables or graphs. Water quality values outside a STORET edit criterion but within the realm of possibility were retained and included in inventory tables and graphs. The Water Quality Observations Outside STORET Edit Criteria for Park table documents all values that were outside an edit criterion range. This documentation is also necessitated by the fact that agencies can override the STORET edit criteria for individual observations. Although the edit criteria eliminate some potentially "bad" data from the report, the probability of other incorrect data, for both the 190 parameters that are edit/bound checked and all the other STORET parameters that aren't error checked, is high. Readers should consult the Caveat section in the Introduction for guidelines on the use and interpretation of STORET data. The responsibility for correcting these observations rests with the collecting agency.

WATER QUALITY RESULTS

OVERVIEW FOR BOWA

Study Area Boundary Description

The study area includes the park and all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

	Study Area	<u>Park</u>
GIS Estimated Acreage:	33452	226
Ols Estillated Acreage.	33432	220
# STORET Stations:	15	0
# Stations With No Data:	0	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	9	0
Date of STORET Retrieval:	04/01/97	04/01/97
Period of Record:	03/17/70-03/18/97	No Data in Park
# Parameters Measured:	357	0
# Water Quality Observations:	29340	0
# Industrial/Municipal Facilities:	0	0
# Drinking Water Intakes:	0	0
# Water Gages:	0	0
# Water Impoundments:	1	0
# Total Plots:	124	0
# Time Series: # Annual: # Seasonal:	41 36 47	0 0 0

Hydrologic Definition of Seasons:

- August 1 October 14
 October 15 April 30
 May 1 July 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 15 years and at least 80 observations.

Annual Analysis Criteria:

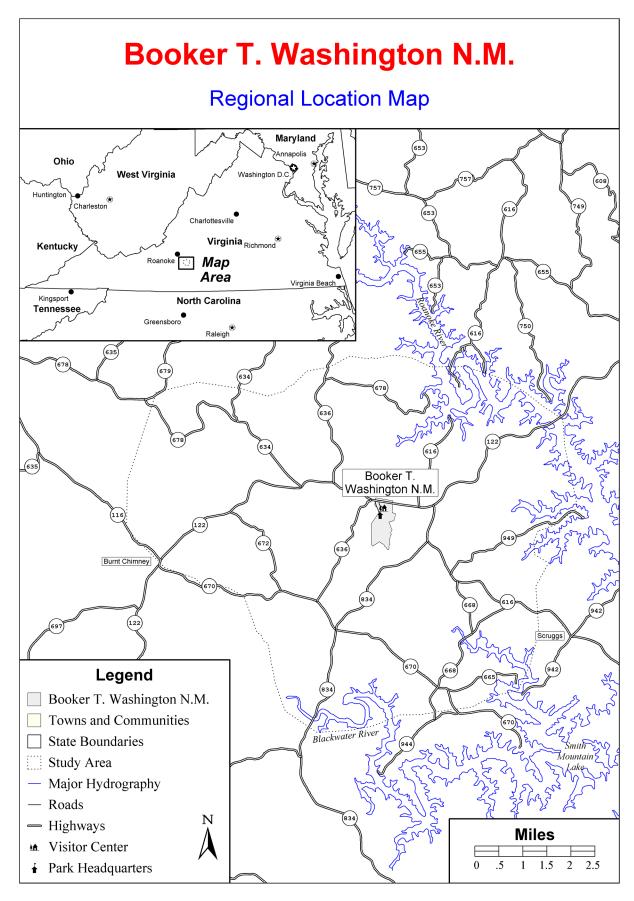
To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 10 years.

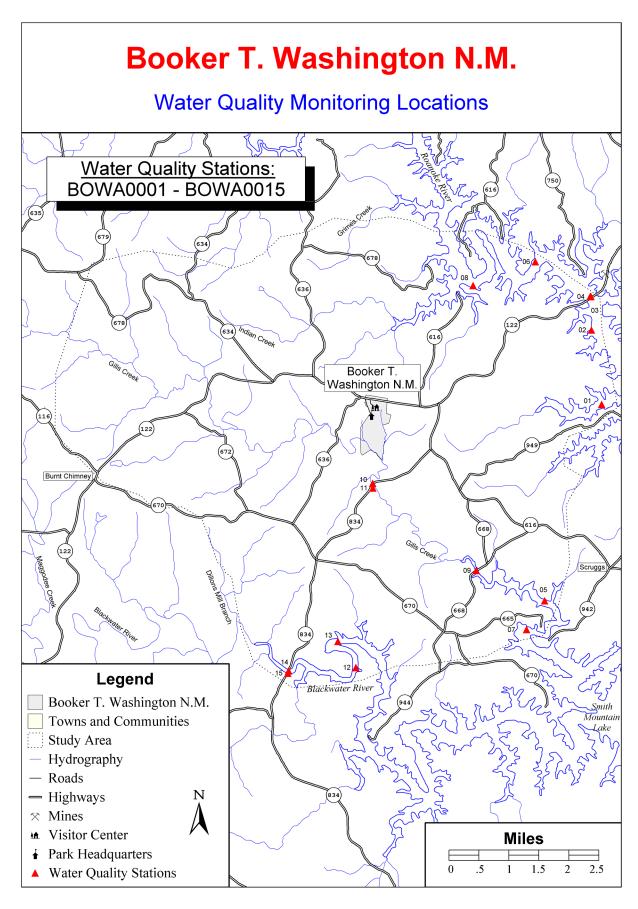
To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 18 years and observations in at least 4 of the 18 years.

To be included in the seasonal analysis tables, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.





Booker T. Washington N.M. Dischargers, Drinking Intakes, Water Gages, & Water Impoundments **Thematic Legend** Industrial Discharger Drinking Water Intake Water Gage Water Impoundment Indian Creek Booker T. Washington N.M Burnt Chimne Beckys Cree 834 Legend Blackwater River Booker T. Washington N.M. Towns and Communities Study Area Hydrography - Roads — Highways **Miles** Wisitor Center

Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the BOWA Study Area

Site ID Station/Facility Name Address City Facility Receiving Water Name No IFD sites available for this study area. **Drinking Water Intakes** Avg. Daily Production Site ID Station/Facility Name City Population Served (Gal./Day) No drinking water intakes available for this study area. Water Gages Drainage Area Site ID Station Name Site Type (Square Miles) End Year Begin Year

Water Impoundments

No stream flow gages available for this study area.

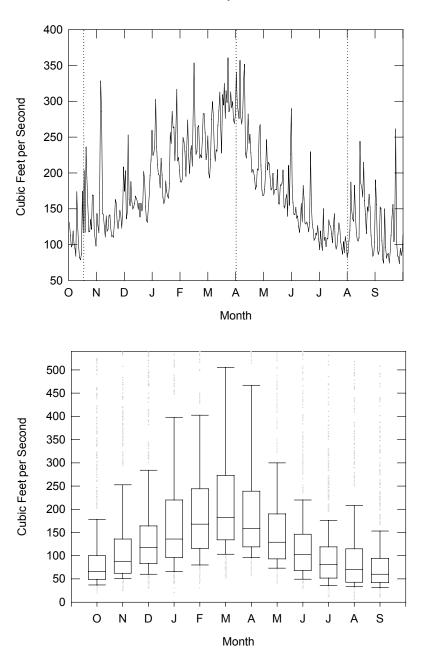
Industrial Facility Discharges

Site ID Impoundment Name Owner Primary Purpose Type of Dam Downstream Hazard Year Completed

VA06703 HETRICK DAM W H HETRICK Rec. Earth Low 1968

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

BOOKER T. WASHINGTON NATIONAL MONUMENT Goose Creek near Huddleston, VA 02059500, 57 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Booker T. Washington National Monument are: Aug. 1 to Oct. 14, Oct. 15, to Mar. 31, and Apr. 1 to Jul. 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR BOWA

<u>AGENCY</u>	PRIMARY CONTACT NAME	<u>ORGANIZATION</u>	PHONE NUMBER(S)
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259
21VASWCB	POLLOCK, VERA	VA DEPT OF ENVIRONMENTAL	(804)527-5224
1113WSWQ	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176

QUANTITY OF DATA RETRIEVED FOR BOWA BY AGENCY CODE

WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

				Water Quality Longer Term! Stations Stations		No D	ata	Water	Quality	Water	r Quality		
		Perio	d of Record			Stations		Stations		Observations		Parameters	
Agency	Organization	Study Area	/ Park Only	S.A.	Park	S.A. /	Park	S.A. /	Park	S.A.	/ Park	S.A.	/ Park
11EPALES	USEPA	04/04/73-06/15/74	No Data in Park	3	0	0	0	0	0	448	0	18	0
21VASWCB	VA DEPT OF ENVIRONMENTAL	03/17/70-03/18/97	No Data in Park	9	0	9	0	0	0	28022	0	141	0
1113WSWQ	USEPA REGION 3	02/26/87-06/02/87	No Data in Park	3	0	0	0	0	0	870	0	241	0
Totals		03/17/70-03/18/97	No Data in Park	15	0	9	0	0	0	29340	0	357	0

'Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Station		In	Total	01/01/85 to	01/01/75 to	Before
Ident.	Location Description	Park	Obs	03/18/97	12/31/84	01/01/75
BOWA0001	SMITH MOUNTAIN LAKE	No	252	0	0	252
BOWA0002	SMITH MOUNTAIN LAKE AT ROUTE 122 BRIDGE	No	229	229	0	0
BOWA0003	SMITH MOUNTAIN LAKE AT RT 122 BRIDGE	No	18	18	0	0
BOWA0004 [!]	SMITH MTN. LAKE, HALES FORD	No	4098	2771	923	404
BOWA0005!	ABOVE STRIPERS LANDING	No	864	468	396	0
BOWA0006	SMITH MOUNTAIN LAKE NEAR ROUTE 122 BRIDGE	No	623	623	0	0
BOWA0007!	SMITH MT. LAKE STA #23,BUOY 11A (FRANKLIN CO)	No	3780	3382	398	0
BOWA0008!	STATION 12 CONFLUENCE WITH INDIAN CRK	No	2639	2639	0	0
BOWA0009!	RT. 668 BRIDGE	No	428	0	148	280
BOWA0010 [!]	RT. 834 BRIDGE NEAR BOOKER T. WASHINGTON NAT. PARK	No	2606	2606	0	0
BOWA0011	GILLS CREEK	No	98	0	0	98
BOWA0012 [!]	SMITH MTN. LAKE, BUOY 18B FRANKLIN COUNTY	No	554	0	159	395
BOWA0013!	SMITH MTN LAKE-STA #21,BUOY 50 (FRANKLIN CO)	No	3579	2987	592	0
BOWA0014!	SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FRANKLN CO	No	9474	6531	1958	985
BOWA0015	BLACKWATER RIVER	No	98	0	0	98

¹Longer Term Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Parameter Code	Name	Total Obs	01/01/85 to 03/18/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total Park
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	581	355	67	159	8 0
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	226	0	67	159	4 0
00008 00010	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE TEMPERATURE, WATER (DEGREES CENTIGRADE)	30 1246	10 833	0 238	20 175	$\begin{array}{ccc} 4 & 0 \\ 10 & 0 \end{array}$
00010	WEATHER (WMO CODE 4501)	1473	1053	263 263	173	9 0
00061	FLOW, STREAM, INSTANTANEOUS CFS	2	2	0	0	1 0
00067	TIDE STAGE (REFER TO APPENDIX FOR CODES)	1	0	0	1	1 0
$00070 \\ 00074$	TURBIDITY, (JACKSON CANDLE UNITS) TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	96 6	93 0	0	3 6	$\begin{array}{ccc} 5 & 0 \\ 1 & 0 \end{array}$
00074	TURBIDITY, HACH TURBIDIMETER, FERCENT TRANSMISSION TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	167	167	0	0	6 0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	3	0	0	3	1 0
00078	TRANSPARENCY, SECCHI DISC (METERS)	31	31	0	0	4 0
00080 00094	COLOR (PLATINUM-COBALT UNITS) SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	28 714	28 634	0 60	$_{20}^{0}$	$\begin{array}{ccc} 3 & 0 \\ 7 & 0 \end{array}$
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	331	311	0	20	7 0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	382	382	0	0	6 0
00300	OXYGEN, DISSOLVED MG/L	853	441	240	172	10 0
00310 00340	BOD, 5 DAY, 20 DEG C MG/L COD, .25N K2CR2O7 MG/L	214 222	142 161	61 61	11 0	$\begin{array}{ccc} 6 & 0 \\ 5 & 0 \end{array}$
00400	PH (STANDARD UNITS)	1252	843	236	173	10 0
00403	PH, LAB, STANDARD ÚNITS SU	587	516	65	6	7 0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	605	513	66	26	8 0
00415 00495	ALKALINITY, PHENOLPHTHALEIN (MG/L) MOISTURE CONTENT (PERCENT OF TOTAL DRY WEIGHT)	2 2	$0 \\ 2$	$0 \\ 0$	2 0	$\begin{array}{ccc} 2 & 0 \\ 1 & 0 \end{array}$
00500	RESIDUE, TOTAL (MG/L)	830	748	73	9	8 0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	802	720	73	9	8 0
00510	RESIDUE, TOTAL FIXED (MG/L)	802	719	74	9 0	$\begin{array}{ccc} 8 & & 0 \\ 2 & & 0 \\ 8 & & 0 \end{array}$
00515 00530	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L RESIDUE, TOTAL NONFILTRABLE (MG/L)	4 930	4 793	0 128	9	$\begin{array}{ccc} 2 & 0 \\ 8 & 0 \end{array}$
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	900	763	128	ý	8 0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	899	763	127	9	8 0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1143	788	202	153	12 0
00615 00620	NITRITE NITROGEN, TOTAL (MG/L AS N) NITRATE NITROGEN, TOTAL (MG/L AS N)	1128 1103	794 795	202 176	132 132	$\begin{array}{ccc} 11 & 0 \\ 11 & 0 \end{array}$
00625	NITRATE NITROGEN, TOTAL (MG/L AS N) NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	1143	789	201	153	12 0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	74	0	26	48	4 0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	968	793	127	48	10 0
00671 00680	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) CARBON, TOTAL ORGANIC (MG/L AS C)	462 231	288 169	126 62	48 0	9 0 5 0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	306	306	0	0	5 0
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	2	2	0	0	1 0
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	2	2	0	0	1 0
00927 00934	MAGNESIUM, TOTAL (MG/L AS MG) SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	1 2	1 2	$0 \\ 0$	$\begin{array}{c} 0 \\ 0 \end{array}$	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
00940	CHLORIDE, TOTAL IN WATER MG/L	216	216	0	0	5 0
00945	SULFATE, TOTAL (MG/L AS SO4)	214	214	0	0	5 0
00951	FLUORIDE, TOTAL (MG/L AS F)	82	82	0	0	5 0
00955 01002	SILICA, DISSOLVED (MG/L AS SI02) ARSENIC, TOTAL (UG/L AS AS)	70 357	70 257	0 81	0 19	5 0 9 0
01002	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	46	35	11	0	7 0
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	6	6	0	0	1 0
01007	BARIUM, TOTAL (UG/L AS BA)	1	1	0	0	1 0
01008 01012	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT) BERYLLIUM, TOTAL (UG/L AS BE)	2 17	2 16	0 1	$0 \\ 0$	$\begin{array}{ccc} 1 & 0 \\ 4 & 0 \end{array}$
01012	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	17	17	0	0	6 0
01027	CADMIUM, TOTAL (UG/L AS CD)	368	257	81	30	9 0
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	46	36	10	0	7 0
01029 01034	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) CHROMIUM, TOTAL (UG/L AS CR)	47 384	36 257	11 86	0 41	$\begin{array}{ccc} 7 & 0 \\ 9 & 0 \end{array}$
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	2	2	0	0	1 0
01042	COPPER, TOTAL (UG/L AS CU)	383	256	86	41	9 0
01043 01045	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	46	35	11	0	7 0
01045	IRON, TOTAL (UG/L AS FE) LEAD, TOTAL (UG/L AS PB)	306 380	235 255	68 86	3 39	$\begin{array}{ccc} 6 & 0 \\ 9 & 0 \end{array}$
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	44	33	11	0	7 0
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	20	20	0	0	6 0
01055 01059	MANGANESE, TOTAL (UG/L AS MN)	316 17	244	68 1	4 0	$ \begin{array}{ccc} 6 & 0 \\ 4 & 0 \end{array} $
01059	THALLIUM, TOTAL (UG/L AS TL) NICKEL, DISSOLVED (UG/L AS NI)	27	16 0	15	12	4 0
01067	NICKEL, TOTAL (UG/L AS NI)	325	254	71	0	7 0
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	44	34	10	0	7 0

Parameter Code	Name	Total Obs	01/01/85 to 03/18/97	01/01/75 to 12/31/84	Before 01/01/75	Statio Total	ons Park
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	6	6	0	01/01//3	1	0
01077	SILVER, TOTAL (UG/L AS AG)	1	1	0	0	1	0
01078 01088	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	13 2	13 2	0	0	6 1	$0 \\ 0$
01088	ZINC, TOTAL (UG/L AS ZN)	381	254	86	41	9	0
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	44	33	11	0	7	Ō
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	7	7	0	0	3	0
01108 01147	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT) SELENIUM, TOTAL (UG/L AS SE)	10 301	10 234	0 67	0	6 7	$0 \\ 0$
01147	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	44	38	6	0	6	0
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	6	6	0	0	1	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11	11	0	0	6	0
01351 31505	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	564 7	499 0	65 0	0 7	6 1	0
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	703	431	133	139	8	ŏ
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	16	16	0	0	4	0
32211 32217	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	13 3	13	$0 \\ 0$	0 3	4	0
32217	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	12	12	0	0	4	0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	16	16	0	0	4	0
32240	TANNIN AND LIGNIN (MG/L)	2	2	0	0	1	0
32731 34203	PHENOLICS IN BOTTOM DEPOSITS (MG/KG DRY WGT) ACENAPHTHYLENE DRY WGTBOTUG/KG	2 2	2 2	0	0	1	0
34204	ACENAPHTHYLENE WET WGTTISMG/KG	6	6	ő	ŏ	i	ŏ
34208	ACENAPHTHENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34209	ACENAPHTHENE WET WGTTISMG/KG	6 2	6	0	0	1	0
34223 34224	ANTHRACENE DRY WGTBOTUG/KG ANTHRACENE WET WGTTISMG/KG	6	2 6	0	0	1	0
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	2	2	0	0	1	Õ
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	2	2	0	0	1	0
34246 34250	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG BENZO-A-PYRENE DRY WGTBOTUG/KG	6	6 2	0	0	1 1	0
34250	BENZO-A-PYRENE WET WGTTISMG/KG	6	6	0	0	1	0
34252	BERYLLIUM WET WGTTISMG/KG	6	6	0	0	1	0
34257	B-BHC-BETA DRY WGTBOTUG/KG	2	2	0	0	1	0
34258 34259	B-BHC-BETA WET WGTTISMG/KG DELTA BENZENE HEXACHLORIDE TOTWUG/L	6	6 2	0 1	0	1 2	0
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	2	2	0	ő	1	ő
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	6	6	0	0	1	0
34276 34277	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	2 6	2 6	$0 \\ 0$	0	1 1	0
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	2	2	0	0	1	0
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	6	6	0	0	1	0
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	2	2	0	0	1	0
34287 34296	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	6 6	6 6	$0 \\ 0$	0	1 1	0
34323	CHRYSENE DRY WGTBOTUG/KG	2	2	ő	ő	i	ő
34324	CHRYSENE WET WGTTISMG/KG	6	6	0	0	1	0
34339 34340	DIETHYL PHTHALATE DRY WGTBOTUG/KG DIETHYL PHTHALATE WET WGTTISMG/KG	2 6	2 6	0	0	1	$0 \\ 0$
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	2	2	0	0	1	0
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	6	6	0	0	1	0
34351	ENDOSULFAN SULFATE TOTWUG/L	3	2	1	0	2	0
34354 34355	ENDOSULFAN SULFATE DRY WGTBOTUG/KG ENDOSULFAN SULFATE WET WGTTISMG/KG	2 6	2 6	0	0	1 1	0
34356	ENDOSULFAN, BETA TOTWUG/L	3	2	1	ŏ	2	ő
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	2	2	0	0	1	0
34360 34361	ENDOSULFAN, BETA WET WGTTISMG/KG ENDOSULFAN, ALPHA TOTWUG/L	6	6 2	0	0	1 2	0
34364	ENDOSULFAN, ALPHA TOT WUG/L ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	2	2	0	0	1	0
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	5	5	0	0	1	0
34366	ENDRIN ALDEHYDE TOTWUG/L	3	2	1	0	2	0
34379 34380	FLUORANTHENE DRY WGTBOTUG/KG FLUORANTHENE WET WGTTISMG/KG	2 6	2 6	0	0	1	0
34384	FLUORENE DRY WGTBOTUG/KG	2	2	ŏ	ŏ	i	ŏ
34385	FLUORENE WET WGTTISMG/KG	6	6	0	0	1	0
34389 34390	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	2 6	2 6	0	0	1 1	$0 \\ 0$
34390	HEXACHLOROBUTADIENE WET WGTTISMG/KG HEXACHLOROBUTADIENE WET WGTTISMG/KG	6	6	0	0	1	0
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	2	2	0	0	i	0
34400	HEXACHLOROETHANE WET WGTTISMG/KG	6	6	0	0	1	0

Code Name Obs 03/18/97 12/31/84 01/01/75 Township 34406 INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG 2 2 2 0 0 34407 INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG 6 6 0 0 0 34411 ISOPHORONE DRY WGTBOTUG/KG 2 2 2 0 0 0 34412 ISOPHORONE WET WGTTISMG/KG 6 6 6 0	tal Park 1 0 1 0 1 0 1 0 1 0 1 0 1 0
34407 INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG 6 6 0 0 34411 ISOPHORONE DRY WGTBOTUG/KG 2 2 2 0 0 34412 ISOPHORONE WET WGTTISMG/KG 6 6 6 0 0 34431 N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG 2 2 0 0 34432 N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG 6 6 6 0 0 34436 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 2 2 2 0 0 34437 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 6 6 6 0 0 34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 6 0 0 34451 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34466<	1 0 1 0 1 0 1 0 1 0
34411 ISOPHORONE DRY WGTBOTUG/KG 2 2 0 0 34412 ISOPHORONE WET WGTTISMG/KG 6 6 0 0 34431 N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG 2 2 0 0 34432 N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG 6 6 0 0 34436 N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG 2 2 0 0 34437 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 6 6 0 0 34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 0 0 0 34451 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34468 PHENOL WET WGTTIS	$ \begin{array}{ccc} 1 & & 0 \\ 1 & & 0 \\ 1 & & 0 \end{array} $
34431 N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG 2 2 0 0 34432 N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG 6 6 0 0 34436 N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG 2 2 2 0 0 34437 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 6 6 0 0 34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 6 0 0 34450 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34451 NITROBENZENE WET WGTTISMG/KG 6 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 6 0 0 34465 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTH	1 0 1 0
34432 N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG 6 6 0 0 34436 N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG 2 2 2 0 0 34437 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 6 6 6 0 0 34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 6 0 0 34450 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34451 NITROBENZENE WET WGTTISMG/KG 6 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 0 0 34465 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468<	1 0
34436 N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG 2 2 0 0 34437 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 6 6 0 0 34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 0 0 34450 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34451 NITROBENZENE WET WGTTISMG/KG 6 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	
34437 N-NITROSODIPHENYLAMINE WET WGTTISMG/KG 6 6 0 0 34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 0 0 34450 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34451 NITROBENZENE WET WGTTISMG/KG 6 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34445 NAPHTHALENE DRY WGTBOTUG/KG 2 2 0 0 34446 NAPHTHALENE WET WGTTISMG/KG 6 6 0 0 34450 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34451 NITROBENZENE WET WGTTISMG/KG 6 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34446 NAPHTHALENE WET WGTTISMG/KG 6 6 0 0 34450 NITROBENZENE DRY WGTBOTUG/KG 2 2 2 0 0 34451 NITROBENZENE WET WGTTISMG/KG 6 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34451 NITROBENZENE WET WGTTISMG/KG 6 6 0 0 34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 2 0 0 34465 PHENANTHRENE WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34455 PARACHLOROMETA CRESOL DRY WGTBOTUG/KG 2 2 0 0 34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34456 PARACHLOROMETA CRESOL WET WGTTISMG/KG 6 6 0 0 34461 PHENANTHRENE TOTWUG/L 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34461 PHENANTHRENE TOTWUG/L 2 2 0 0 34465 PHENANTHRENE WET WGTTISMG/KG 6 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34465 PHENANTHRENE WET WGTTISMG/KG 6 6 0 0 34468 PHENOL WET WGTTISMG/KG 6 6 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34468 PHENOL WET WGTTISMG/KG 6 6 0 0	1 0
	1 0
	1 0
34473 PYRENE WET WGTTISMG/KG 6 6 0 0	1 0
34480 THALLIUM DRY WGTBOTMG/KG 16 16 0 0	6 0
34529 BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG 2 2 0 0 0 34530 BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG 6 6 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34539 1,2-DICHLOROBENZENE DRY WGTBOTUG/KG 2 0 0	1 0
34540 1,2-DICHLOROBENZENE WET WGTTISMG/KG 6 6 0 0	1 0
34554 1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG 2 2 0 0	1 0
34555 1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG 6 6 0 0	1 0
34559 1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG 2 2 0 0	1 0
34560 1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG 6 6 0 0 34569 1,3-DICHLOROBENZENE DRY WGTBOTUG/KG 2 2 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34569 1,3-DICHLOROBENZENE DRY WGTBOTUG/KG 2 2 0 0 34570 1,3-DICHLOROBENZENE WET WGTTISMG/KG 6 6 0 0	1 0
34574 1,4-DICHLOROBENZENE DRY WGTBOTUG/KG 2 2 0 0	1 0
34575 1,4-DICHLOROBENZENE WET WGTTISMG/KG 6 6 0 0	1 0
34584 2-CHLORONAPHTHALENE DRY WGTBOTUG/KG 2 2 0 0 0 34585 2-CHLORONAPHTHALENE WET WGTTISMG/KG 6 6 0 0	1 0
	1 0
34589 2-CHLOROPHENOL DRY WGTBOTUG/KG 2 2 0 0 34590 2-CHLOROPHENOL WET WGTTISMG/KG 6 6 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34594 2-NITROPHENOL DRY WGTBOTUG/KG 2 0 0	1 0
34595 2-NITROPHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34599 DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG 2 2 0 0	1 0
34600 DI-N-OCTYL PHTHALATE WET WGTTISMG/KG 6 6 0 0	1 0
34604 2,4-DICHLOROPHENOL DRY WGTBOTUG/KG 2 2 0 0 34605 2,4-DICHLOROPHENOL WET WGTTISMG/KG 6 6 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34609 2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG 2 0 0	1 0
34610 2,4-DIMETHYLPHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34614 2,4-DINITROTOLUENE DRY WGTBOTUG/KG 2 2 0 0	1 0
34615 2,4-DINITROTOLUENE WET WGTTISMG/KG 6 6 0 0	1 0
34619 2,4-DINITROPHENOL DRY WGTBOTUG/KG 2 2 0 0	1 0
34620 2,4-DINITROPHENOL WET WGTTISMG/KG 6 6 0 0 34624 2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG 2 2 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34624 2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG 2 2 0 0 34625 2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34629 2,6-DINITROTOLUENE DRY WGTBOTUG/KG 2 2 0 0	1 0
34630 2,6-DINITROTOLUENE WET WGTTISMG/KG 6 6 0 0	1 0
34634 3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG 2 2 0 0	1 0
34635 3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG 6 6 0 0 34639 4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG 2 2 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34639 4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG 2 2 0 0 0 34640 4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG 6 6 0 0	1 0
34644 4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG 2 2 0 0	1 0
34645 4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG 6 6 0 0	1 0
34649 4-NITROPHENOL DRY WGTBOTUG/KG 2 2 0 0	1 0
34650 4-NITROPHENOL WET WGTTISMG/KG 6 6 0 0	1 0
34660 DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG 3 3 0 0 0 34661 DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG 5 5 0 0	2 0
34664 PCB - 1221 WET WGTTISMG/KG 6 6 0 0	1 0
34667 PCB - 1232 WET WGTTISMG/KG 6 6 0 0	1 0
34669 PCB - 1248 WET WGTTISMG/KG 5 5 0 0	1 0
34670 PCB - 1260 WET WGTTISMG/KG 6 0 0	1 0
34671 PCB - 1016 TOTWUG/L 3 2 1 0	2 0
34674 PCB - 1016 WET WGTTISMG/KG 6 6 0 0 0 34680 ALDRIN IN FISH TISSUE WET WEIGHT MG/KG 6 6 0 0	$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$
34682 CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG 6 6 0 0	1 0
34683 DI-N-BUTYL PHTHALATE, TISSUE, WET WGTWET WGT 6 6 0 0	1 0

Parameter Code		Total Obs	01/01/85 to 03/18/97	01/01/75 to 12/31/84	Before 01/01/75	Statio Total	
34685	Name ENDRIN WET WGTTISMG/KG	6	6	0	01/01//3	10141	Park 0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	6	6	0	0	1	0
34687	HEPTACHLOR WET WGTTISMG/KG	6	6	0	0	1	0
34689 34690	PCB - 1242 WET WGTTISMG/KG PCB - 1254 WET WGTTISMG/KG	6 6	6 6	$0 \\ 0$	$0 \\ 0$	1 1	$0 \\ 0$
34691	TOXAPHENE WET WGTTISMG/KG	6	6	0	0	1	0
38442	DICAMBA (BANVEL) WATER, DISSUG/L	3	2	1	ő	2	ő
38451	DICHLORPROP WATER, SUSPUG/L	3	2	1	0	2	0
38745	2,4-DB WATER, TOTUG/L	3	2	1	0	2	0
39032 39060	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	5 6	2 6	3 0	0	2 1	$0 \\ 0$
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	24	21	3	0	6	0
39062	CHLORDANE-CIS ISOMER, WHOLE WATER SAMPL (UG/L)	2	0	2	ŏ	ĺ	ŏ
39065	CHLORDANE-TRNS ISOMER, WHOLE WATER SAMPL (UG/L)	2 2	0	2 2	0	1	0
39068	CHLORDANE-NONACHLOR, CIS ISO, WHOLE WTR (UG/L)	2	0	2	0	1	0
39071 39074	CHLORDANE-NONACHLOR,TPANS ISO,WHOLE WTR (UG/L) BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	2 6	0 6	2 0	0	1	0
39074	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	2	2	0	0	1	0
39099	BIS(2-ETHYLHEXYL)PHTHALATE, TISSUE, WET WGT, MG/KG	6	6	Ö	ŏ	i	ŏ
39102	BIS(2-ETHYLHEXYL) PHTHALATE, SEDIMENT, DRY WGT, UG/KG	2	2	0	0	1	0
39112	DI-N-BUTYL PHTHALATE, SEDIMENTS, DRY WGT, UG/KG	2 2 5	2	0	0	1	0
39300 39301	P,P' DDT IN WHOLE WATER SAMPLE (UG/L) P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	2 2	3 0	0	2 1	0
39301	P P DDT IN TISSUE WET WGT (UG/G)	5	5	0	0	1	0
39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	2 5 2 5	0	2	0	1	Ö
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	5	2	3	0	2	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2 5	2	0	0	1	0
39312 39315	P P DDD IN TISSUE WET WGT (UG/G) O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	2	5 0	0 2	0	1 1	$0 \\ 0$
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	5	2	3	0	2	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	2	0	0	1	Ö
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	5	5	0	0	1	0
39327	ORTHO PARA DDE IN WHOLE WATER SAMPLE (UG/L)	2 8	0	2	0	1	0
39330 39333	ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	8 19	2 17	6 2	$0 \\ 0$	4 6	$0 \\ 0$
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	3	2	1	0	2	0
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	3	2	1	0	2	0
39340	GAMMA-BHC(LINDANE), WHOLE WATER, UG/L	3	2	1	0	2	0
39343 39350	GAMMA-BHC(LINDANE), SEDIMENTS, DRY WGT, UG/KG	2 2	2 0	0 2	0	1 1	0
39351	CHLORDANE(TECH MIX & METABS), WHOLE WATER, UG/L CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG		19	3	0	5	0
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	22	19	3	ŏ	5	ŏ
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	22	19	3	0	5	0
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	22	19	3	0	5	0
39380 39383	DIELDRIN IN WHOLE WATER SAMPLE (UG/L) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	6 24	2 21	3 3	1	2 6	$0 \\ 0$
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	5	2	3	0		0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	24	21	3	ŏ	2 6	ŏ
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILÒGRAM DRY SOL.)	24	21	3	0	6	0
39404 39410	DIELDRIN IN TISSUE WET WGT (UG/G) HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	6	6 2	0	0	1 2	0
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	24	21	3	0	6	0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	2	2	0	0	1	0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	2 2	0	2	0	1	0
39481 39482	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.) METHOXYCHLOR IN FISH - UG/KG	6	2 6	0	0	1 1	$0 \\ 0$
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	3	2	1	ő	2	ő
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	2	2	0	0	1	0
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	3	2	1	0	2	0
39495 39496	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	2 3	2 2	0	0	1 2	$0 \\ 0$
39490	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE OU/L	2	2	0	0	1	0
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	3	2	ĺ	ŏ	2	ŏ
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	2	0	0	1	0
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	2	0	0	1	0
39508 39511	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	3 2	2 2	1 0	0	2 1	0
39511	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	2	2	0	0	1	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	2	0	2	ŏ	1	ŏ

Parameter Code	Name	Total Obs	01/01/85 to 03/18/97	01/01/75 to 12/31/84	Before 01/01/75	Statio Total	ons Park
39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	22	19	3	0	5	0
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	2	1	1	0	2	0
39631 39700	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS) HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	2 2	0	2 2	0	1 1	$0 \\ 0$
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	2	2	$\overset{2}{0}$	ő	i	ő
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	6	6	0	0	1	0
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	2	2	0	0	1	0
39730 39740	2,4-D IN WHOLE WATER SAMPLE (UG/L) 2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	3	2 2	1	0	2 2	$0 \\ 0$
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	3	2	i	ŏ	2	ŏ
39785	GAMMA-BHC(LINDANE), TISSUE, WET WEIGHT, MG/KG	6	6	0	0	1	0
46570 70505	HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	31 179	31	0 74	0 105	5 4	$0 \\ 0$
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	573	394	74	105	8	0
71900	MERCURY, TOTAL (UG/L AS HG)	396	272	86	38	9	0
71921 71930	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	46 6	36	10 0	0	7	0
71936	MERCURY, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS LEAD, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	6	6	0	0	1	0
71937	COPPER, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	6	6	ő	0	i	ŏ
71938	ZINC, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	6	6	0	0	1	0
71939 71940	CHROMIUM, TOT IN FISH OR ANIMALS-WET WEIGHT BASIS CADMIUM, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	6 6	6	0	0	1	$0 \\ 0$
72025	DEPTH OF POND OR RESERVOIR IN FEET	3	ő	ő	3	i	ő
75045	HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG	15	15	0	0	5	0
75212	BENZYL ALCOHOL SEDIMENT, DRY WGT, UG/KG	2 2	2 2	0	0	1	0
75315 75647	BENZOIC ACID SEDIMENT,DRY WGT,UG/KG DIBENZOFURAN SEDIMENT,DRY WGT,UG/KG	2	$\frac{2}{2}$	0	0	1	0
76184	BENZYL ALCOHOL TISSUE ,WET WGT,MG/KG	6	6	ő	0	i	ŏ
76287	BENZOIC ACID TISSUE ,WET WGT,MG/KG	6	6	0	0	1	0
76619 77825	DIBENZOFURAN TISSUE ,WET WGT,MG/KG ALACHLOR WHOLE WATER,UG/L	6	6 2	0	0	1 2	$0 \\ 0$
78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	6	6	0	0	1	0
78299	2-NITROANILINE IN SEDIMENT, DRY WEIGHT UG/KG	2	2	0	0	1	0
78401 78545	2,4,5-TRICHLOROPHENOL IN SEDIMENT, DRY WEIGHT, UG/KG	2 2	2 2	0	0	1 1	$0 \\ 0$
78546	CHLORDENE,ALPHA,IN SEDIMENT UG/KG CHLORDENE,GAMMA, IN SEDIMENT UG/KG	$\frac{2}{2}$	2	0	0	1	0
78800	BUTYL BENZYL PHTHALATE IN SEDIMENT DRY WT UG/KG	2	2	0	0	1	0
78803	P-CRESOL (4-METHYL PHENOL) IN SED DRY WGT UG/KG	2	2	0	0	1	0
78828 78867	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG 4-CHLOROANILINE IN SEDIMENT DRY WEIGHT UG/KG	2 2	2 2	0	0	1 1	0
78868	2-METHYLNAPHTHALENE IN SEDIMENT DRY WEIGHT UG/KG	2	2	ő	ŏ	1	ŏ
78869	3-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
78870 78872	4-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG 2-METHYLPENOL(O-CRESOL) SEDIMENT DRY WEIGHT UG/KG	2 2	2 2	0	0	1 1	$0 \\ 0$
79041	BENZO(GHI)PERYLENE TISWETWTMG/KG	6	6	ő	ŏ	1	ő
79053	4-CHLOROANILINE TISDRYWTMG/KG	1	1	0	0	1	0
79055 79056	2-METHYLNAPHTHALENE TISDRYWTMG/KG 2-NITROANILINE TISDRYWTMG/KG	l 1	1	0	0	1 1	$0 \\ 0$
79057	3-NITROANILINE TISDRYWTMG/KG	1	1	0	0	1	0
79058	4-NITROANILINE TISDRYWTMG/KG	1	1	0	0	1	0
79145	2-METHYLPHENOL TISDRYWTMG/KG	1	1	0	0	1 1	0
79146 79147	4-METHYLPHENOL TISDRYWTMG/KG 2,4,5-TRICHLOROPHENOL TISDRYWTMG/KG	1	1	0	0	1	0
79156	4,6-DINITRO-2-METHYLPHENOL TISDRYWTMG/KG	1	1	0	Õ	1	0
79163	4,4'-DDT TISDRYWTMG/KG	1	1	0	0	1	0
79164 79166	4,4'-DDE TISDRYWTMG/KG 4.4'-DDD TISDRYWTMG/KG	1	1	0	0	1	$0 \\ 0$
79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	15	15	ŏ	ŏ	5	ŏ
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	6	6	0	0	1	0
81615 82032	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE CALCIUM - TOTAL UG/L (AS CA)	6 7	6 7	0	0	1 3	0
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	169	169	0	0	6	0
82427	POTASSIUM, DISSOLVED FROM DRY DEPOSITION MG/KG	2	2	0	0	1	0
82557 84007	ENDRIN KEYTONE IN BOTTOM DEPOSITS SEDDRYWGTMG/KG	2	2	0	0	1 1	$0 \\ 0$
84007 85759	ANATOMY ALPHA CODE NITROANILINE, 2- , TISSUE, WET WT, MG/KG	6 5	6 5	0	0	1	0
85760	CHLORANILINÉ, 4-, TISSUÉ, WET WT, MG/KG	5	5	0	0	1	0
85762	NITROANILINE, 4-, TISSUE, WET WT, MG/KG	5	5	0	0	1	0
85763 85764	NITROANILINE, 3-, TISSUE, WET WT, MG/KG TRICHLOROPHENOL, 2,4,5-, TISSUE, WET WT, MG/KG	5 5	5 5	0	0	1 1	0
85765	METHYLNAPHTHALENE, 2-, TISSUE, WET WT, MG/KG	5	5	0	ő	1	0

Paramete	r	Total	01/01/85 to	01/01/75 to	Before	Stat	ions
Code	Name	Obs	03/18/97	12/31/84	01/01/75	Total	Park
85766	METHYLPHENOL, 4-, TISSUE, WET WT, MG/KG	5	5	0	0	1	0
85767	METHYLPHENOL, 2-, TISSUE, WET WT, MG/KG	5	5	0	0	1	0

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0004	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	07/07/71-10/21/96	25	68	
BOWA0007	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	09/14/93-10/29/96	3	25	
BOWA0008	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	06/28/94-10/21/96	2	25	
BOWA0009	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	07/07/71-06/15/76	4	34	
BOWA0010	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	07/01/92-09/12/95	3	103	
BOWA0012	No	00002 00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.) X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	07/07/71-06/15/76	4 3	43 19	
BOWA0013 BOWA0014	No No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	09/14/93-10/29/96 03/17/70-03/18/97	27	264	
BOWA0004	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	07/07/71-06/15/76	4	43	
BOWA0009	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	07/07/71-06/15/76	4	34	
BOWA0012	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	07/07/71-06/15/76	4	43	
BOWA0014	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	03/17/70-05/01/78	8	106	
BOWA0001	No	80000	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/04/73-09/28/73	0	20	
BOWA0002	No	80000	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/02/87-06/02/87	0	2 2 6	
BOWA0003	No	80000	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/26/87-05/04/87	0	2	
BOWA0006	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/02/87-06/02/87	0		
BOWA0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/04/73-09/28/73	0 25	20 179	
BOWA0004 BOWA0005	No No	$00010 \\ 00010$	TEMPERATURE, WATER (DEGREES CENTIGRADE) TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96 05/10/84-10/21/86	23	41	
BOWA0003 BOWA0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	12	135	
BOWA0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	11	97	
BOWA0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-06/15/76	4	34	
BOWA0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	4	133	
BOWA0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-06/15/76	4	41	
BOWA0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	13	128	
BOWA0014	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	27	438	
BOWA0004	No	00041	WEATHER (WMO CODE 4501)	07/07/71-10/21/96	25	220	
BOWA0005	No	00041	WEATHER (WMO CODE 4501)	05/10/84-10/21/86	2	56	
BOWA0007	No	00041	WEATHER (WMO CODE 4501)	05/10/84-10/29/96 04/24/85-10/21/96	12	200	
BOWA0008 BOWA0009	No No	00041 00041	WEATHER (WMO CODE 4501) WEATHER (WMO CODE 4501)	07/07/71-06/15/76	11 4	136 31	
BOWA0010	No	00041	WEATHER (WMO CODE 4501) WEATHER (WMO CODE 4501)	04/29/92-09/12/95	3	116	
BOWA0012	No	00041	WEATHER (WMO CODE 4501) WEATHER (WMO CODE 4501)	07/07/71-06/15/76	4	42	
BOWA0013	No	00041	WEATHER (WMO CODE 4501)	04/13/83-10/29/96	13	182	
BOWA0014	No	00041	WEATHER (WMO CODE 4501)	03/17/70-03/18/97	27	490	
BOWA0014	No	00061	FLOW, STRÈAM, INSTANTANÉOUS CFS	09/24/92-08/27/96	3	2	
BOWA0014	No	00067	TIDE STAGE (REFER TO APPENDIX FOR CODES)	07/20/72-07/20/72	0	1	
BOWA0004	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/17/88-08/27/90	1	13	
BOWA0007	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/19/88-04/26/94	5	18	
BOWA0008	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/17/88-10/02/89	0	12	
BOWA0014	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/19/88-04/26/94	5 21	13	S
BOWA0014 BOWA0001	No No	$00070 \\ 00074$	TURBIDITY, (JACKSON CANDLE UNITS) TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/05/71-06/25/92 09/28/73-09/28/73	0	40 6	3
BOWA0001 BOWA0004	No	00074	TURBIDITY, HACH TURBIDIMETER, FERCENT TRANSMISSION TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/94-10/21/96	2	23	
BOWA0007	No	00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/30/94-10/24/96	$\frac{2}{2}$	15	
BOWA0008	No	00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/94-10/21/96	2 2	23	
BOWA0010	No	00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/06/94-09/12/95	1	35	
BOWA0013	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/06/94-10/24/96	2	9	
BOWA0014	No	00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/06/94-02/18/97	2	62	
BOWA0001	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/04/73-09/28/73	0	3	
BOWA0004	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/28/94-10/21/96	2 3	10	
BOWA0007	No No	$00078 \\ 00078$	TRANSPARENCY, SECCHI DISC (METERS)	09/14/93-10/24/96 06/28/94-10/21/96	2	8 9	
BOWA0008 BOWA0013	No No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/14/93-10/24/96	3	4	
BOWA0013 BOWA0007	No	00078	TRANSPARENCY, SECCHI DISC (METERS) COLOR (PLATINUM-COBALT UNITS)	08/29/90-08/29/90	0	3	
BOWA0013	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/29/90-08/29/90	0	3	
BOWA0014	No	00080	COLOR (PLATINUM-COBALT UNITS)	03/21/91-02/24/93	1	22	
BOWA0001	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	04/04/73-09/28/73	0	20	
BOWA0004	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM (a) 25C)	08/16/88-10/21/96	8	55	
BOWA0007	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	8	74	
BOWA0008	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	8	56	
BOWA0010	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/30/91-09/12/95	4	132	
BOWA0013	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	8	59	т.
BOWA0014	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	17	318	T,A
BOWA0001 BOWA0004	No No	00095 00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/73-09/28/73 10/02/89-10/21/96	0 7	20 30	
BOWA0004 BOWA0007	No	00093	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	6	43	
BOWA0007 BOWA0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	7	32	
BOWA0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/30/92-09/12/95	3	44	
BOWA0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	6	34	
BOWA0014	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	8	128	
BOWA0004	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/28/94-10/21/96	2	26	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0007	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/92-10/24/96	4	24	
BOWA0008	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/28/94-10/21/96	2	26	
BOWA0010 BOWA0013	No No	00299 00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/29/92-09/12/95 10/05/92-10/24/96	3 4	118 18	
BOWA0013	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	5	170	
BOWA0001	No	00300	OXYGEN, DISSOLVED MG/L	04/04/73-09/28/73	ő	17	
BOWA0004	No	00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	19	152	T,S
BOWA0005	No	00300	OXYGEN, DISSOLVED MG/L	05/10/84-10/21/86	2	42	
BOWA0007	No	00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	9	104	
BOWA0008 BOWA0009	No No	00300 00300	OXYGEN, DISSOLVED MG/L OXYGEN, DISSOLVED MG/L	04/24/85-10/01/90 07/07/71-06/15/76	5 4	68 34	
BOWA0009	No	00300	OXYGEN, DISSOLVED MG/L	05/30/91-08/21/91	0	16	
BOWA0012	No	00300	OXYGEN, DISSOLVED MG/L	07/07/71-06/15/76	4	41	
BOWA0013	No	00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	11	109	
BOWA0014	No	00300	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	21	270	T,A,S
BOWA0004	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/29/72-10/02/89	17 0	5	
BOWA0007 BOWA0008	No No	00310 00310	BOD, 5 DAY, 20 DEG C MG/L BOD, 5 DAY, 20 DEG C MG/L	04/27/89-04/27/89 10/02/89-10/02/89	0	3	
BOWA0012	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/29/72-10/29/74	2	3	
BOWA0013	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/27/89-04/27/89	0	3	
BOWA0014	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	26	197	T,A,S
BOWA0004	No	00340	COD, .25N K2CR2O7 MG/L	04/25/89-10/02/89	0	9	
BOWA0007	No	00340 00340	COD, .25N K2CR2O7 MG/L COD25N K2CR2O7 MG/L	04/27/89-10/04/89	0	9 9	
BOWA0008 BOWA0013	No No	00340	COD, .25N K2CR2O7 MG/L COD, .25N K2CR2O7 MG/L	04/25/89-10/02/89 04/27/89-10/04/89	0	5	
BOWA0013	No	00340	COD., 25N K2CR2O7 MG/L	07/23/79-02/18/97	17	190	T,A
BOWA0001	No	00400	PH (STANDARD UNITS)	04/04/73-09/28/73	0	20	-,
BOWA0004	No	00400	PH (STANDARD UNITS)	07/07/71-10/21/96	25	178	T,A,S
BOWA0005	No	00400	PH (STANDARD UNITS)	05/10/84-10/21/86	2	45	
BOWA0007	No	00400	PH (STANDARD UNITS)	05/10/84-10/24/96	12	138	
BOWA0008 BOWA0009	No No	00400 00400	PH (STANDARD UNITS) PH (STANDARD UNITS)	04/24/85-10/21/96 07/07/71-06/15/76	11 4	99 33	
BOWA0010	No	00400	PH (STANDARD UNITS)	05/30/91-09/12/95	4	133	
BOWA0012	No	00400	PH (STANDARD UNITS)	07/07/71-06/15/76	4	41	
BOWA0013	No	00400	PH (STANDARD UNITS)	04/13/83-10/24/96	13	128	
BOWA0014	No	00400	PH (STANDARD UNITS)	03/17/70-03/18/97	27	437	T,A,S
BOWA0004	No	00403	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	24	121	T,A,S
BOWA0005 BOWA0007	No No	00403 00403	PH, LAB, STANDARD UNITS SU PH, LAB, STANDARD UNITS SU	05/10/84-10/21/86 05/10/84-10/24/96	2 12	32 119	
BOWA0007	No	00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	11	91	
BOWA0012	No	00403	PH, LAB, STANDARD UNITS SU	07/20/72-07/20/72	0	1	
BOWA0013	No	00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	13	114	
BOWA0014	No	00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	26	109	T,S
BOWA0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/04/73-09/28/73	0	20	TAC
BOWA0004 BOWA0005	No No	00410 00410	ALKALINITY, TOTAL (MG/L AS CACO3) ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96 05/10/84-10/21/86	24 2	122 32	T,A,S
BOWA0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	12	119	
BOWA0008	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	11	91	
BOWA0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-07/20/72	0	1	
BOWA0013	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	13	113	TC
BOWA0014 BOWA0004	No No	00410 00415	ALKALINITY, TOTAL (MG/L AS CACO3) ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/17/70-02/18/97 07/20/72-07/20/72	26 0	107 1	T,S
BOWA0004 BOWA0012	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/20/72-07/20/72	0	1	
BOWA0002	No	00495	MOISTURE CONTENT (PERCENT OF TOTAL DRY WEIGHT)	06/02/87-06/02/87	ŏ	2	
BOWA0004	No	00500	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	24	122	T,A,S
BOWA0005	No	00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/21/86	2	30	
BOWA0007	No	00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	12	117	
BOWA0008 BOWA0010	No No	00500 00500	RESIDUE, TOTAL (MG/L) RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96 05/30/91-09/12/95	11 4	91 127	
BOWA0012	No	00500	RESIDUE, TOTAL (MG/L)	06/29/72-06/29/72	0	1	
BOWA0013	No	00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	13	113	
BOWA0014	No	00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	26	229	T,S
BOWA0004	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	24	122	T,A,S
BOWA0005	No No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/21/86 05/10/84-10/24/96	2	30	
BOWA0007 BOWA0008	No No	00505 00505	RESIDUE, TOTAL VOLATILE (MG/L) RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96 04/24/85-10/21/96	12 11	117 91	
BOWA0008	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	4	115	
BOWA0012	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-06/29/72	ó	1	
BOWA0013	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	13	113	_
BOWA0014	No	00505	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	26	213	T,S
BOWA0004 BOWA0005	No No	00510 00510	RESIDUE, TOTAL FIXED (MG/L) RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96 05/10/84-10/21/86	24 2	122 30	T,A,S
DO W A0003	INO	00310	RESIDUE, TOTAL FIXED (MO/L)	03/10/04-10/21/80	2	30	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

BOWA0007 No	Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0010						12		
BOWA0012 No								
BOWA0013								
BOWA0014 NO 00510 RESIDUE_TOTAL_FIXED_MGE] 0317794271897 26 214 T.S.								
BOWA0007 No								T,S
BOWA0001		No	00515				2	,
BOWA00005 No								
BOWA0007 No								T,A,S
BOWA00008 No								
BOWA0013 No								
BOWA00013 No					05/30/91-09/12/95	4		
BOWA0001								
BOWA0009								TAC
BOWA0005 No 00535 RESIDUE, VOLATILE NONFILTRABLE (MGL) 05/10/84-10/21/86 2 31 No 14 No 15 No								
BOWA0007								1,71,0
BOWA0010		No	00535		05/10/84-10/24/96	12		
BOWA0013 No								
BOWA0014 No								
BOWA0004 No								
BOWA0004 No								T,A,S
BOWA0007 No	BOWA0004	No			06/29/72-10/21/96		121	
BOWA0001								
BOWA0010								
BOWA0011 No								
BOWA0011								
BOWA0001 No	BOWA0013	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	13	113	
BOWA0000								T,A,S
BOWA0005 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 05/10/84-10/21/86 2 32 12 12 12 13 14 14 14 14 14 14 14								TAC
BOWA0007 No								1,A,S
BOWA0008 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 83 BOWA0010 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 05/30/91-09/12/95 4 129 BOWA0011 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0014 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 11 A BOWA00015 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 7_A,S BOWA00015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 7_A,S BOWA00015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-01/21/96 1 4 2 3								
BOWA0010		No	00610			11		
BOWA0011								
BOWA0012 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 405 T.A.S								
BOWA0013 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0015 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 405 T.A.S BOWA0015 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0005 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/1-10/21/96 25 147 T.A.S BOWA0007 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 123 BOWA0008 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 11 84 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/11-06/15/76 4 25 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/11-06/15/76 4 25 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/11-06/15/76 4 25 BOWA0012 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
BOWA0014 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 405 T,A,S BOWA0015 No 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0004 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-10/21/96 25 147 T,A,S BOWA0007 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 123 BOWA0008 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 123 BOWA0008 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 12 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 12 BOWA0011 No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A</td>								A
BOWA0004 No 06615 NITRITE NÍTROGEN, TÓTAL (MĜ/L AS N) 08/11/71-10/21/96 25 147 T,A,S BOWA0005 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 123 BOWA0008 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0009 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0004				NITROGEN, AMMONIA, TOTAL (MG/L AS N)				T,A,S
BOWA0005 No 06615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/24/96 12 123 BOWA0007 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/24/96 12 123 BOWA0008 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/74 0 14 BOWA0012 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/74 4 129 BOWA0013 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0014 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0005 No 00620								T. A. C.
BOWA0007 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/24/96 12 123 BOWA0008 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/30/91-09/12/95 4 129 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 7,A,S BOWA00015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/11/71-10/21/96 25 147 7,A,S BOWA00015 No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,A,S</td>								1,A,S
BOWA0008 No 06615 NITIRITE NITROGEN, TOTAL (MG/L AS N) 04/24/8S-10/21/96 11 84 BOWA0009 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/30/91-09/12/95 4 129 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0013 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0014 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0014 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0015 No 00615 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/11/71-10/21/96 25 147 T,A,S BOWA0005 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 123 BOWA0008 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
BOWA0010 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 05/30/91-09/12/95 4 129 BOWA0011 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0014 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0004 No 006520 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 T,A,S BOWA0005 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 25 147 T,A,S BOWA0007 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 123 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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BOWA0013 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0014 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0004 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-10/21/96 25 147 T,A,S BOWA0005 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/86 2 32 BOWA0007 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/86 12 123 BOWA0008 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0011 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0013								
BOWA0014 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 409 T,A,S BOWA0015 No 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0004 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-10/21/96 25 147 T,A,S BOWA0005 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/96 12 23 BOWA0007 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/24/96 12 123 BOWA0008 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0010 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0011 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No								Α
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BOWA0005 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/21/86 2 32 BOWA0007 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/24/96 12 123 BOWA0008 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0009 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0011 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0014 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0001 No 00625								
BOWA0007 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/10/84-10/24/96 12 123 BOWA0008 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0009 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/30/91-09/12/95 4 130 BOWA0011 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0004 No								T,A,S
BÓWA0008 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/24/85-10/21/96 11 84 BOWA0009 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 25 BOWA0010 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 05/30/91-09/12/95 4 130 BOWA0011 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0014 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0005 No								
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BOWA0011 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0012 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0014 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0004 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 08/11/71-10/21/96 25 148 T,A,S BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/96 2 32 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOW			00620	NITRATE NITROGEN, TOTAL (MG/L AS N)				
BOWA0012 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 08/11/71-06/15/76 4 32 BOWA0013 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0014 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA00015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/04/73-09/28/73 0 20 BOWA0004 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 08/11/71-10/21/96 25 148 T,A,S BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/96 2 32 BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84								
BOWA0013 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 04/13/83-10/24/96 13 119 A BOWA0014 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/04/73-09/28/73 0 20 BOWA0004 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 08/11/71-10/21/96 25 148 T,A,S BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/86 2 32 BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84								
BOWA0014 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 03/17/70-02/18/97 26 383 T,A,S BOWA0015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/04/73-09/28/73 0 20 BOWA0004 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 08/11/71-10/21/96 25 148 T,A,S BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/86 2 32 BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84								Α
BOWA0015 No 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) 07/15/73-06/15/74 0 14 BOWA0001 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/04/73-09/28/73 0 20 BOWA0004 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 08/11/71-10/21/96 25 148 T,A,S BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/96 2 32 BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84								
BOWA0004 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 08/11/71-10/21/96 25 148 T,A,S BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/86 2 32 BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84	BOWA0015		00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/15/73-06/15/74	0	14) J:-
BOWA0005 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/21/86 2 32 BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84								TD 4 C
BOWA0007 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 05/10/84-10/24/96 12 121 BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84						25		1,A,S
BOWA0008 No 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) 04/24/85-10/21/96 11 84								

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0010	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/30/91-09/12/95	4	129	
BOWA0011	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/15/73-06/15/74	0	14	
BOWA0012	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-06/15/76	4	32	
BOWA0013	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	13	119	A
BOWA0014	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	26	405	T,A,S
BOWA0015	No	00625 00630	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/15/73-06/15/74	$0 \\ 0$	14 20	
BOWA0001 BOWA0011	No No	00630	NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N) NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	04/04/73-09/28/73 07/15/73-06/15/74	0	14	
BOWA0011	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/19/76-06/26/79	2	26	
BOWA0015	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/15/73-06/15/74	0	14	
BOWA0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/04/73-09/28/73	Ŏ	20	
BOWA0004	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	13	115	
BOWA0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/21/86	2	32	
BOWA0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	12	123	
BOWA0008	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	11	85	
BOWA0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	4	129	
BOWA0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/15/73-06/15/74	0	14	
BOWA0013	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	13	119	A
BOWA0014	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	17	317	T,A
BOWA0015	No No	00665 00671	PHOSPHORUS, TOTAL (MG/L AS P) PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/73-06/15/74	$0 \\ 0$	14 20	
BOWA0001 BOWA0004	No No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/04/73-09/28/73 04/13/83-06/26/90	7	77	
BOWA0005	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS I)	05/10/84-10/21/86	2	32	
BOWA0003	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	9	55	
BOWA0007	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/85-06/26/90	5	46	
BOWA0011	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/73-06/15/74	0	14	
BOWA0013	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	10	64	
BOWA0014	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	12	140	A
BOWA0015	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/73-06/15/74	0	14	
BOWA0004	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/17/88-10/02/89	0	12	
BOWA0007	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/19/88-08/29/90	1	15	
BOWA0008	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/17/88-10/02/89	0	12	
BOWA0013	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/19/88-08/29/90	1	11	
BOWA0014	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	17	181	T,A
BOWA0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/09/87-10/01/90	3	41	
BOWA0007	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	6	58	
BOWA0008	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/09/87-10/01/90	3	40	
BOWA0013	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-04/26/94	6	53	
BOWA0014	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	10	114	A
BOWA0002 BOWA0002	No No	00917 00924	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT) MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/02/87-06/02/87 06/02/87-06/02/87	0	2 2	
BOWA0002 BOWA0007	No	00924	MAGNESIUM, TOTAL (MG/L AS MG)	10/19/88-10/19/88	0	1	
BOWA0007	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/02/87-06/02/87	0	2	
BOWA0004	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	7	2 35 33	
BOWA0007	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/27/89-10/24/96	7	33	
BOWA0008	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	7	35	
BOWA0013	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/27/89-10/24/96	7	23	
BOWA0014	No	00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	8	90	
BOWA0004	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	7	35	
BOWA0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	7	33	
BOWA0008	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	7	35	
BOWA0013	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	7	23	
BOWA0014	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	8	88	
BOWA0004	No	00951	FLUORIDE, TOTAL (MG/L AS F)	04/25/89-10/02/89	0	8	
BOWA0007	No	00951	FLUORIDE, TOTAL (MG/L AS F) FLUORIDE. TOTAL (MG/L AS F)	04/27/89-08/29/90	1	12	
BOWA0008 BOWA0013	No	00951 00951	FLUORIDE, TOTAL (MG/L AS F) FLUORIDE, TOTAL (MG/L AS F)	04/25/89-10/02/89 04/27/89-08/29/90	0	9 8	
BOWA0013	No No	00951	FLUORIDE, TOTAL (MG/L AS F) FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	1 4	45	
BOWA0014	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/89-10/02/89	0	5	
BOWA0007	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/27/89-08/29/90	1	12	
BOWA0008	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/89-10/02/89	0	6	
BOWA0013	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/27/89-08/29/90	1	8	
BOWA0014	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/02/89-01/28/93	3	39	
BOWA0003	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/26/87-05/04/87	0	2	
BOWA0004	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	23	79	S
BOWA0005	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/21/86	2	21	
BOWA0007	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	10	84	
BOWA0008	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/85-10/04/94	9	49	
BOWA0009	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-06/15/76	4	4	
BOWA0012	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-06/15/76	4	5	
BOWA0013	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	11	83	C
BOWA0014	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/05/71-07/28/92	21	30	S

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0002	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/02/87-06/02/87	0	1	
BOWA0004	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/13/83-10/21/96	13	8	
BOWA0005	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/12/84-07/12/84	0	1	
BOWA0007	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/12/84-10/29/96	12	9	
BOWA0008	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/16/88-10/21/96	8	5	
BOWA0013	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/13/83-10/29/96	13	10	
BOWA0014	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/21/76-07/29/96	20	12	
BOWA0006	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	06/02/87-06/02/87	0	6 1	
BOWA0003 BOWA0002	No No	01007 01008	BARIUM, TOTAL (UG/L AS BA) BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	02/26/87-02/26/87 06/02/87-06/02/87	0	2	
BOWA0002 BOWA0004	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/16/88-08/16/88	0	1	
BOWA0007	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/18/88-10/19/93	5	7	
BOWA0013	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/18/88-10/19/93	5	7	
BOWA0014	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/21/84-07/28/92	8	2	
BOWA0002	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/02/87-06/02/87	0	2	
BOWA0004	No	01013	BERYLLIUM IN BOTTOM DEPOSITS (MG/KG AS BE DRY WGT)	06/28/94-10/21/96	2	2	
BOWA0007	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	09/14/93-10/29/96	3	3	
BOWA0008	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/28/94-10/21/96	2	2 2 2 3 2 3	
BOWA0013	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	09/14/93-10/29/96	3	3	
BOWA0014	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/28/92-07/29/96	4	5 2	
BOWA0003	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/26/87-05/04/87	0 23	81	T,S
BOWA0004 BOWA0005	No No	01027 01027	CADMIUM, TOTAL (UG/L AS CD) CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94 05/10/84-10/21/86	23	21	1,5
BOWA0003	No	01027	CADMIUM, TOTAL (UG/L AS CD) CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/21/80	10	84	
BOWA0007	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/85-10/04/94	9	49	
BOWA0009	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-06/15/76	4	5	
BOWA0012	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-06/15/76	4	7	
BOWA0013	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	11	83	
BOWA0014	No	01027	CADMIUM, TOTAL (UG/L AS CD)	11/02/70-07/28/92	21	36	S
BOWA0002	No	01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/02/87-06/02/87	0	2	
BOWA0004	No	01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/13/83-10/21/96	13	8	
BOWA0005	No	01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/12/84-07/12/84	0	1	
BOWA0007	No	01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/12/84-10/29/96	12	9	
BOWA0008	No	01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/16/88-10/21/96	8	5	
BOWA0013	No	01028 01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/13/83-10/29/96	13 20	10 11	
BOWA0014 BOWA0002	No No	01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/21/76-07/29/96 06/02/87-06/02/87	0	2	
BOWA0002	No	01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/13/83-10/21/96	13	8	
BOWA0005	No	01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/12/84-07/12/84	0	ĭ	
BOWA0007	No	01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/12/84-10/29/96	12	9	
BOWA0008	No	01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/16/88-10/21/96	8	5	
BOWA0013	No	01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/13/83-10/29/96	13	10	
BOWA0014	No	01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/21/76-07/29/96	20	12	
BOWA0003	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/26/87-05/04/87	0	2	T,S
BOWA0004 BOWA0005	No No	01034 01034	CHROMIUM, TOTAL (UG/L AS CR) CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94 05/10/84-10/21/86	23 2	83 21	1,5
BOWA0003	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/21/80	10	84	
BOWA0008	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/85-10/04/94	9	49	
BOWA0009	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-06/15/76	4	7	
BOWA0012	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-06/15/76	4	9	
BOWA0013	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	11	83	_
BOWA0014	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/17/70-07/28/92	22	46	S
BOWA0002	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/02/87-06/02/87	0	2	
BOWA0003 BOWA0004	No No	01042 01042	COPPER, TOTAL (UG/L AS CU) COPPER, TOTAL (UG/L AS CU)	05/04/87-05/04/87	0 23	83	T,S
BOWA0004 BOWA0005	No No	01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94 05/10/84-10/21/86	23	21	1,5
BOWA0003	No	01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	10	84	
BOWA0008	No	01042	COPPER, TOTAL (UG/L AS CU)	07/17/85-10/04/94	9	49	
BOWA0009	No	01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-06/15/76	4	7	
BOWA0012	No	01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-06/15/76	4	9	
BOWA0013	No	01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	11	83	
BOWA0014	No	01042	COPPER, TOTAL (UG/L AS CU)	03/17/70-07/28/92	22	46	S
BOWA0002	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/02/87-06/02/87	0	2	
BOWA0004 BOWA0005	No No	01043 01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT) COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/13/83-10/21/96 07/12/84-07/12/84	13 0	8 1	
BOWA0003 BOWA0007	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT) COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/12/84-07/12/84	12	9	
BOWA0007	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/88-10/21/96	8	5	
BOWA0013	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/13/83-10/29/96	13	9	
BOWA0014	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/21/76-07/29/96	20	12	
BOWA0004	No	01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	11	69	
BOWA0005	No	01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/21/86	2	19	
BOWA0007	No	01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	10	79	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

BOWA0001	Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0001		No		IRON, TOTAL (UG/L AS FE)		-		
BOWA0003 No 01051								
BOWA0001								
BOWA0005 No 01051 LEAD, TOTAL (LIGAL AS PB)								тс
BOWA0007 No								1,5
BOWA0008 No								
BOWA00013								
BOWA0011								
BOWA0013 No 01051 LEAD, TOTAL (UGL AS PB) 04/13/83-1006994 11 83								
BOWA00091 No	BOWA0013	No	01051		04/13/83-10/06/94	11		
BOWA0005 No 01052 LEAD IN BOTTOM DEPOSITS (MC/KG AS PB DRY WGT) 071284-071296 1 2 9	BOWA0014	No	01051	LEAD, TOTAL (UG/L AS PB)	11/02/70-07/28/92	21	44	S
BOWA0005 No 01052 LEAD IN BOTTOM DEPOSITS (MC/KG AS PB DRY WGT) 071284-071296 1 2 9		No					2	
BOWA0007 No 01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT) 071/284-10/2996 12 9 BOWA0013 No 01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT) 072/389-10/21/996 13 10 BOWA0014 No 01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT) 0621/76-07/29/96 20 12 BOWA0014 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT) 0621/76-067/29/96 20 12 BOWA0002 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT) 0602/87-060/23/87 0 2 BOWA0008 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT) 0602/87-060/23/87 0 2 BOWA0015 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT) 08/23/89-10/21/96 7 3 BOWA0001 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT) 08/23/89-10/21/96 7 3 BOWA0001 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT) 04/13/89-10/21/96 7 5 BOWA0001 No 01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT) 04/13/89-10/21/96 7 5 BOWA0001 No 01053 MANGANESE, TOTAL (UGL AS MN) 04/								
BOWA0001								
BOWA0013 No 01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)								
BOWA0004								
BOWA0002								
BOWA00018 No								
BOWA00018 No							2	
BOWA00018 No							5	
BOWA0014 No 01053 MANGANESE IR BOTTOM DEPOSITS (MG/KG AS NN) DRY WGT) 08/17/88-10/29/96 7 5	BOWA0008	No	01053		08/23/89-10/21/96	7	3	
BOWA0004 No	BOWA0013	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/17/89-10/29/96	7	5	
BOWA0005	BOWA0014	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)		1		
BOWA0007 No		No						
BOWA00018 No								
BOWA0013 No								
BOWA0004								
BOWA0004 No				, , , , , , , , , , , , , , , , , , , ,				
BOWA0001								
BOWA0014 No							7	
BOWA0014 No 01065 NICKEL, DISSOLVED (UG/L AS NI) 08/01/73-06/15/76 2 4 4 4 4 4 4 4 4 4							7	
BOWA0009							2	
BOWA0009	BOWA0004	No	01065				4	
BOWA0014 No 01065 NICKEL, DISSOLVED (UG/L AS NI) 01/04/73-06/26/79 6 15	BOWA0009	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/01/73-06/15/76		4	
BOWA0003	BOWA0012	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/01/73-06/15/76	2		
BOWA0004 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/13/83-10/04/94 11 73 8 8 8 8 8 8 8 8 8								
BOWA0005								
BOWA0007 No 01067 NICKEL, TOTAL (UG/L AS NI) 05/10/84-10/06/94 10 84 BOWA0013 No 01067 NICKEL, TOTAL (UG/L AS NI) 07/17/85-10/04/94 9 49 BOWA0013 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/13/83-10/06/94 11 82 BOWA0014 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/08/81-07/28/92 11 15 BOWA0002 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0007 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0008 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/12/76-07/29/96 2 11 BOWA00014 No 01068								
BOWA0008 No 01067 NICKEL, TOTAL (UG/L AS NI) 07/17/85-10/04/94 9 49 BOWA0013 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/13/83-10/06/94 11 82 BOWA0014 No 01068 NICKEL, TOTAL (UG/L AS NI) 04/08/81-07/28/92 11 15 BOWA0002 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITIS (MG/KG,DRY WGT) 06/02/87-06/02/87 0 2 BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITIS (MG/KG,DRY WGT) 07/12/84-07/12/84 0 1 BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITIS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0008 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITIS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITIS (MG/KG,DRY WGT) 07/13/83-10/06/94 1 9 BOWA0004 No 01069 NICKEL, TOTAL IN BOTTOM DEPOSITIS (MG/KG,DRY WGT) 07/13/83-10/06/94 1 9 BOWA0006 No								
BOWA0013 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/13/83-10/06/94 11 82 BOWA0014 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/08/81-07/28/92 11 15 BOWA0002 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/02/87-06/02/87 0 2 BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/13/83-10/21/96 13 8 BOWA0007 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA00013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0003 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA00003								
BOWA0014 No 01067 NICKEL, TOTAL (UG/L AS NI) 04/08/81-07/28/92 11 15 BOWA0002 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/02/87-06/02/87 0 2 BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-07/12/84 0 1 BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0008 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0001 No 01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0003 No 01077 SILVER, TOTAL (UG/L AS AG) 02/26/87-06/02/87 0 1 BOWA00004								
BOWA0002 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/13/83-10/21/96 13 8 BOWA0007 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0007 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA00013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA00014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0000 No 01069 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/22/87-06/02/87 0 6 BOWA0001 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
BOWA0004 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/13/83-10/21/96 13 8 BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 0 1 BOWA0007 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0018 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA00014 No 01068 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0006 No 01069 NICKEL, TOTAL (UG/L AS AG) 02/26/87-02/26/87 0 1 BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
BOWA0005 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-07/12/84 0 1 BOWA0007 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/12/84-06/30/94 9 8 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/13/83-10/06/94 11 9 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0006 No 01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0003 No 01077 SILVER, TOTAL (UG/L AS AG) 02/26/87-06/02/87 0 1 BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1							8	
BOWA0008 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/13/83-10/06/94 11 9 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0006 No 01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0002 No 01078 SILVER, TOTAL (UG/L AS AG) 02/26/87-02/26/87 0 1 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/6/30/94 0 1 BOWA0014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/6/06/94 1 2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></t<>							1	
BOWA0008 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 08/16/88-10/21/96 8 5 BOWA0013 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 07/13/83-10/06/94 11 9 BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0006 No 01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0002 No 01078 SILVER, TOTAL (UG/L AS AG) 02/26/87-02/26/87 0 1 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 2 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/6/30/94 0 1 BOWA0014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/6/6/94 1 2 <td< td=""><td>BOWA0007</td><td>No</td><td>01068</td><td>NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)</td><td>07/12/84-06/30/94</td><td>9</td><td>8</td><td></td></td<>	BOWA0007	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/12/84-06/30/94	9	8	
BOWA0014 No 01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) 06/21/76-07/29/96 20 11 BOWA0006 No 01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0003 No 01077 SILVER, TOTAL (UG/L AS AG) 02/26/87-02/26/87 0 1 BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 2 BOWA0008 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 07/28/92-07/29/96 4 5 BOW	BOWA0008	No					5	
BOWA0006 No 01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG 06/02/87-06/02/87 0 6 BOWA0003 No 01077 SILVER, TOTAL (UG/L AS AG) 02/26/87-02/26/87 0 1 BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 2 BOWA0008 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA00014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 06/02/87-06/02/87 0 2 BOWA00								
BOWA0003 No 01077 SILVER, TOTAL (UG/L AS AG) 02/26/87-02/26/87 0 1 BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 2 BOWA0008 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/28/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 07/28/92-07/29/96 4 5 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 06/02/87-06/02/87 0 2 BOWA0003 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-10/04/94 23 83 T,S BOWA0005<							_	
BOWA0002 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/02/87-06/02/87 0 2 BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 2 BOWA0008 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 07/28/92-07/29/96 4 5 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 06/02/87-06/02/87 0 2 BOWA0003 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-10/04/94 23 83 T,S BOWA0005 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008<								
BOWA0004 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 2 BOWA0008 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 07/28/92-07/29/96 4 5 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 06/02/87-06/02/87 0 2 BOWA0003 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/04/87-06/02/87 0 1 BOWA0004 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-10/04/94 23 83 T,S BOWA0005 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008 No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>							-	
BOWA0007 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-06/30/94 0 2 BOWA0008 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 06/28/94-06/28/94 0 1 BOWA0013 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 09/14/93-10/06/94 1 2 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 07/28/92-07/29/96 4 5 BOWA0003 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/04/87-05/04/87 0 1 BOWA0004 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-10/04/94 23 83 T,S BOWA0005 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/21/86 2 21 BOWA0007 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008 No 01092 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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BOWA0014 No 01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT) 07/28/92-07/29/96 4 5 BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 06/02/87-06/02/87 0 2 BOWA0003 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/04/87-05/04/87 0 1 BOWA0004 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-10/04/94 23 83 T,S BOWA0005 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/21/86 2 21 BOWA0007 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008 No 01092 ZINC, TOTAL (UG/L AS ZN) 07/17/85-10/04/94 9 48 BOWA0012 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 7 BOWA0013 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 11 83 BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 03/17/70-								
BOWA0002 No 01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT) 06/02/87-06/02/87 0 2 BOWA0003 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/04/87-05/04/87 0 1 BOWA0004 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-10/04/94 23 83 T,S BOWA0005 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/21/86 2 21 BOWA0007 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008 No 01092 ZINC, TOTAL (UG/L AS ZN) 07/17/85-10/04/94 9 48 BOWA0012 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 7 BOWA0013 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 11 83 BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 12 83							5	
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BOWA0005 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/21/86 2 21 BOWA0007 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008 No 01092 ZINC, TOTAL (UG/L AS ZN) 07/17/85-10/04/94 9 48 BOWA0009 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 7 BOWA0012 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 9 BOWA0013 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 11 83 BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 03/17/70-07/28/92 22 45 S	BOWA0003	No		ZINC, TOTAL (UG/L AS ZN)			1	
BOWA0007 No 01092 ZINC, TOTAL (UG/L AS ZN) 05/10/84-10/06/94 10 84 BOWA0008 No 01092 ZINC, TOTAL (UG/L AS ZN) 07/17/85-10/04/94 9 48 BOWA0009 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 7 BOWA0012 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 9 BOWA0013 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 11 83 BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 03/17/70-07/28/92 22 45 S		No						T,S
BOWA0008 No 01092 ZINC, TOTAL (UG/L AS ZN) 07/17/85-10/04/94 9 48 BOWA0009 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 7 BOWA0012 No 01092 ZINC, TOTAL (UG/L AS ZN) 08/11/71-06/15/76 4 9 BOWA0013 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 11 83 BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 03/17/70-07/28/92 22 45 S								
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BOWA0013 No 01092 ZINC, TOTAL (UG/L AS ZN) 04/13/83-10/06/94 11 83 BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 03/17/70-07/28/92 22 45 S								
BOWA0014 No 01092 ZINC, TOTAL (UG/L AS ZN) 03/17/70-07/28/92 22 45 S								
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¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0004	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/13/83-10/21/96	13	7	
BOWA0005	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/12/84-07/12/84	0	1	
BOWA0007 BOWA0008	No No	01093 01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT) ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/12/84-10/29/96 08/23/89-10/21/96	12 7	9 3	
BOWA0003	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT) ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/13/83-10/29/96	13	10	
BOWA0014	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/21/76-07/29/96	20	12	
BOWA0007	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/94-10/29/96	2	2	
BOWA0013	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/06/94-10/29/96	2	2 3	
BOWA0014	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	04/10/95-07/29/96	1		
BOWA0002 BOWA0004	No No	01108 01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT) ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/02/87-06/02/87 10/21/96-10/21/96	$0 \\ 0$	2	
BOWA0004 BOWA0007	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT) ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/29/96-10/29/96	0	1	
BOWA0008	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/21/96-10/21/96	0	1	
BOWA0013	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/06/94-10/29/96	2	2	
BOWA0014	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	04/10/95-07/29/96	1	3	
BOWA0003	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/26/87-02/26/87	0	1 73	
BOWA0004 BOWA0005	No No	01147 01147	SELENIUM, TOTAL (UG/L AS SE) SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94 05/10/84-10/21/86	11 2	19	
BOWA0003	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	10	78	
BOWA0008	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/22/86-10/04/94	8	47	
BOWA0013	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	11	78	
BOWA0014	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/21/84-07/28/92	8	5	
BOWA0004	No	01148 01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT) SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/13/83-10/21/96 07/12/84-07/18/86	13 2	8	
BOWA0005 BOWA0007	No No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT) SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/12/84-07/18/80	12	10	
BOWA0007	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/17/85-10/21/96	11	6	
BOWA0013	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/13/83-10/29/96	13	11	
BOWA0014	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/25/92-07/29/96	4	6	
BOWA0006	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	01170 01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/02/87-06/02/87 10/21/96-10/21/96	$0 \\ 0$	2	
BOWA0004 BOWA0007	No No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT) IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/94-10/29/96	2	2	
BOWA0007	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/21/96-10/21/96	0	1	
BOWA0013	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/06/94-10/29/96	2	2	
BOWA0014	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	04/10/95-07/29/96	1	2 3	
BOWA0004	No	01351	FLOW, STRM, 1DRY, 2LOW, 3NORM, 4FLOOD, 5ABOVE NORM, CODE	06/20/89-10/21/96	7	35	
BOWA0007 BOWA0008	No No	01351 01351	FLOW, STRM, 1DRY, 2LOW, 3NORM, 4FLOOD, 5ABOVE NORM, CODE FLOW, STRM, 1DRY, 2LOW, 3NORM, 4FLOOD, 5ABOVE NORM, CODE	04/28/93-10/29/96 06/20/89-10/21/96	3 7	23 35	
BOWA0010	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	07/01/92-09/12/95	3	103	
BOWA0013	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	09/14/93-10/29/96	3	15	
BOWA0014	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	07/23/79-03/18/97	17	353	
BOWA0014	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/20/70-11/02/70	0	7	
BOWA0004	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-10/21/96	25	49	
BOWA0007 BOWA0008	No No	31616 31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/28/90-10/24/96 04/24/90-10/21/96	6 6	19 10	
BOWA0009	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-06/15/76	4	30	
BOWA0010	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	4	125	
BOWA0012	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-06/15/76	4	38	
BOWA0013	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/28/90-10/24/96	6	19	T. A. C.
BOWA0014 BOWA0004	No No	31616 32210	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	11/30/70-03/18/97 04/24/90-10/01/90	26 0	413 4	T,A,S
BOWA0007	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/26/90-10/03/90	0	4	
BOWA0008	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/24/90-10/01/90	Ö	4	
BOWA0013	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/26/90-10/03/90	0	4	
BOWA0004	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/24/90-10/01/90	0	3	
BOWA0007	No No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/26/90-10/03/90	0	4	
BOWA0008 BOWA0013	No No	32211 32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/24/90-10/01/90 04/26/90-10/03/90	0	3	
BOWA0001	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/04/73-09/28/73	0	3	
BOWA0004	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/24/90-10/01/90	0	3	
BOWA0007	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/28/90-10/03/90	0	3	
BOWA0008	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/24/90-10/01/90	0	3	
BOWA0013	No No	32218 32219	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/26/90-10/03/90 04/24/90-10/01/90	0	3 4	
BOWA0004 BOWA0007	No No	32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/26/90-10/03/90	0	4	
BOWA0008	No	32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/24/90-10/01/90	ő	4	
BOWA0013	No	32219	PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID	04/26/90-10/03/90	0	4	
BOWA0014	No	32240	TANNIN AND LIGNIN (MG/L)	09/29/92-02/24/93	0	2	
BOWA0002	No No	32731	PHENOLICS IN BOTTOM DEPOSITS (MG/KG DRY WGT) ACENAPHTHYLENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0002 BOWA0006	No No	34203 34204	ACENAPHTHYLENE DRY WGTBOTUG/KG ACENAPHTHYLENE WET WGTTISMG/KG	06/02/87-06/02/87 06/02/87-06/02/87	$0 \\ 0$	2 6	
BOWA0002	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0006	No	34209	ACENAPHTHENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	11013
BOWA0002	No	34223	ANTHRACENE DRY WGTBOTUG/KG	06/02/87-06/02/87	Ō	2	
BOWA0006	No	34224	ANTHRACENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34233	BENZO(B)FLUORANTHENE, SEDIMENTS, DRY WGT, UG/KG	06/02/87-06/02/87	0	2 2 6	
BOWA0002	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SÉDIMENT ÚG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34251 34252	BENZO-A-PYRENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6 6	
BOWA0006 BOWA0002	No No	34252	BERYLLIUM WET WGTTISMG/KG B-BHC-BETA DRY WGTBOTUG/KG	06/02/87-06/02/87 06/02/87-06/02/87	0		
BOWA0002 BOWA0006	No	34258	B-BHC-BETA WET WGTTISMG/KG	06/02/87-06/02/87	0	2 6	
BOWA0007	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	09/14/87-09/14/87	ő	1	
BOWA0014	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/03/84-07/08/85	ő		
BOWA0002	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/02/87-06/02/87	Ö	2 2 6	
BOWA0006	No	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6 2 6	
BOWA0006	No	34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0002	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0006 BOWA0002	No	34296 34323	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	06/02/87-06/02/87 06/02/87-06/02/87	$0 \\ 0$	6	
	No	34323	CHRYSENE DRY WGTBOTUG/KG CHRYSENE WET WGTTISMG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006 BOWA0002	No No	34324	DIETHYL PHTHALATE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0002 BOWA0006	No	34340	DIETHYL PHTHALATE DKT WOTBOTOG/KG DIETHYL PHTHALATE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34344	DIMETHYL PHTHALATE WET WOTTISMO/RO DIMETHYL PHTHALATE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0002	No	34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0007	No	34351	ENDOSULFAN SULFATE TOTWUG/L	09/14/87-09/14/87	ő	1	
BOWA0014	No	34351	ENDOSULFAN SULFATE TOTWUG/L	10/03/84-07/08/85	ő	2	
BOWA0002	No	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	06/02/87-06/02/87	Õ	2	
BOWA0006	No	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	06/02/87-06/02/87	0	2 6	
BOWA0007	No	34356	ENDOSULFAN, BETA TOTWUG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	34356	ENDOSULFAN, BETA TOTWUG/L	10/03/84-07/08/85	0	2	
BOWA0002	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0007	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	10/03/84-07/08/85	0	2 2 5	
BOWA0002	No	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	06/02/87-06/02/87	0	5 1	
BOWA0007	No No	34366 34366	ENDRIN ALDEHYDE TOTWUG/L	09/14/87-09/14/87	$0 \\ 0$		
BOWA0014 BOWA0002	No No	34379	ENDRIN ALDEHYDE TOTWUG/L FLUORANTHENE DRY WGTBOTUG/KG	10/03/84-07/08/85 06/02/87-06/02/87	0	2 2 6	
BOWA0002 BOWA0006	No	34379	FLUORANTHENE DRT WOTBOTOOKO FLUORANTHENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34384	FLUORENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0		
BOWA0006	No	34385	FLUORENE WET WGTDGTGG/KG	06/02/87-06/02/87	ő	2 6	
BOWA0002	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	06/02/87-06/02/87	ő		
BOWA0006	No	34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	06/02/87-06/02/87	Õ	2 6	
BOWA0006	No	34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34400	HEXACHLOROETHANE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34411	ISOPHORONE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34412	ISOPHORONE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002 BOWA0006	No	34431 34432	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	06/02/87-06/02/87 06/02/87-06/02/87	$0 \\ 0$	2	
BOWA0002	No No	34436	N-NITROSODI-N-FROFT LAMINE WET WOTTISMO/RO N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34437	N-NITROSODII HENTLAMINE DRT WGTBOTOG/RG N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	06/02/87-06/02/87	0	2 6	
BOWA0002	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	06/02/87-06/02/87	ő		
BOWA0006	No	34446	NAPHTHALENE WET WGTTISMG/KG	06/02/87-06/02/87	ő	2 6	
BOWA0002	No	34450	NITROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	Õ		
BOWA0006	No	34451	NITROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	0	2 6	
BOWA0002	No	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34461	PHENANTHRENE TOTWUG/L	06/02/87-06/02/87	0	2	
BOWA0006	No	34465	PHENANTHRENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0006	No	34468	PHENOL WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34472	PYRENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34473	PYRENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No No	34480	THALLIUM DRY WGTBOTMG/KG	06/02/87-06/02/87	0	2 2	
BOWA0004	No	34480	THALLIUM DRY WGTBOTMG/KG	06/28/94-10/21/96	2	2	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

C4-4:	I., D.,l.	C-1-	N	Ctout End	V	Ol	DI-4-!
Station BOWA0007	In Park No	Code 34480	Name THALLIUM DRY WGTBOTMG/KG	Start - End 09/14/93-10/29/96	Years 3	Obs 3	Plots!
BOWA0007	No	34480	THALLIUM DRY WGTBOTMG/KG	06/28/94-10/21/96	2	2	
BOWA0013	No	34480	THALLIUM DRY WGTBOTMG/KG	09/14/93-10/29/96	3	3	
BOWA0014	No	34480	THALLIUM DRY WGTBOTMG/KG	07/28/92-09/25/95	3	4	
BOWA0002	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0002	No	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0002	No	34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0002	No No	34584 34585	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006 BOWA0002	No No	34589	2-CHLORONAPHTHALENE WET WGTTISMG/KG 2-CHLOROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87 06/02/87-06/02/87	0	2	
BOWA0002 BOWA0006	No	34590	2-CHLOROPHENOL WET WGTBOTOG/RG 2-CHLOROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34594	2-NITROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34595	2-NITROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	ő	6	
BOWA0002	No	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	06/02/87-06/02/87	ő	2	
BOWA0006	No	34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	06/02/87-06/02/87	Ŏ	6	
BOWA0002	No	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	Ŏ	2	
BOWA0006	No	34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	Õ	6	
BOWA0002	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0002	No	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34620	2,4-DINITROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	0		
BOWA0002	No	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2 6	
BOWA0006	No	34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	06/02/87-06/02/87	0	2	
BOWA0002	No No	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	06/02/87-06/02/87	0	6	
BOWA0006 BOWA0002	No No	34635 34639	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG 4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87 06/02/87-06/02/87	0	2	
BOWA0002 BOWA0006	No	34640	4-BROMOPHENYL PHENYL ETHER DRT WOTBOTOG/RG 4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87	0	2	
BOWA0002	No	34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0002	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	ő		
BOWA0006	No	34650	4-NITROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	ő	2 6	
BOWA0002	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	06/02/87-06/02/87	Õ	2	
BOWA0006	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	34664	PCB - 1221 WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0006	No	34667	PCB - 1232 WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0006	No	34669	PCB - 1248 WET WGTTISMG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	34670	PCB - 1260 WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0007	No	34671	PCB - 1016 TOTWUG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	34671	PCB - 1016 TOTWUG/L	10/03/84-07/08/85	0	2	
BOWA0006	No No	34674 34680	PCB - 1016 WET WGTTISMG/KG ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	06/02/87-06/02/87	0	6	
BOWA0006 BOWA0006	No No	34682	CHLORDANE(TECH MIX & METABS), TISSUEWET WGTT, MG/KG	06/02/87-06/02/87 06/02/87-06/02/87	$0 \\ 0$	6 6	
BOWA0006	No	34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGTWET WGT	06/02/87-06/02/87	0	6	
BOWA0006	No	34685	ENDRIN WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0006	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0006	No	34687	HEPTACHLOR WET WGTTISMG/KG	06/02/87-06/02/87	ő	6	
BOWA0006	No	34689	PCB - 1242 WET WGTTISMG/KG	06/02/87-06/02/87	Ŏ	6	
BOWA0006	No	34690	PCB - 1254 WET WGTTISMG/KG	06/02/87-06/02/87	Õ	6	
BOWA0006	No	34691	TOXAPHENE WET WGTTISMG/KG	06/02/87-06/02/87	0	6	
BOWA0007	No	38442	DICAMBA (BANVEL) WATER, DISSUG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	38442	DICAMBA (BANVEL) WATER, DISSUG/L	10/03/84-07/08/85	0	2	
BOWA0007	No	38451	DICHLORPROP WATER,SUSPUG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	38451	DICHLORPROP WATER, SUSPUG/L	10/03/84-07/08/85	0	2	
BOWA0007	No	38745	2,4-DB WATER, TOTUG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	38745	2,4-DB WATER, TOTUG/L	10/03/84-07/08/85	0	2	
BOWA0007	No No	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	0	1	
BOWA0014	No No	39032 39060	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	11/27/79-07/08/85	5 0	4	
BOWA0006	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	06/02/87-06/02/87	U	6	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Nama	Stort End	Years	Obs	Plots!
BOWA0002	No	39061	Name PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	Start - End 06/02/87-06/02/87	0	2	FIOIS
BOWA0004	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/11/84-10/21/96	12	4	
BOWA0007	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/18/88-10/29/96	8	4	
BOWA0008	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/16/88-10/21/96	8	3	
BOWA0013	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/12/84-10/29/96	12	5 6	
BOWA0014	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	09/12/84-07/29/96	11	6	
BOWA0014	No	39062	CHLORDANE-CIS ISOMER, WHOLE WATER SAMPL (UG/L)	11/27/79-07/25/80	0	2 2 2 2 6	
BOWA0014	No	39065	CHLORDANE-TRNS ISOMER, WHOLE WATER SAMPL (UG/L)	11/27/79-07/25/80	0	2	
BOWA0014	No	39068	CHLORDANE-NONACHLOR, CIS ISO, WHOLE WTR (UG/L)	11/27/79-07/25/80	0	2	
BOWA0014 BOWA0006	No No	39071 39074	CHLORDANE-NONACHLOR,TPANS ISO,WHOLE WTR (UG/L) BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	11/27/79-07/25/80 06/02/87-06/02/87	$0 \\ 0$	6	
BOWA0002	No	39074	BHC-ALPHA ISOMER, HISSUE UG/G WET WGT BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/02/87-06/02/87	0		
BOWA0002 BOWA0006	No	39099	BIS(2-ETHYLHEXYL)PHTHALATE, TISSUE, WET WGT, MG/KG	06/02/87-06/02/87	0	2 6 2 2	
BOWA0002	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE, SEDIMENT, DRY WGT, UG/KG	06/02/87-06/02/87	ő	2	
BOWA0002	No	39112	DI-N-BUTYL PHTHALATE, SEDIMENTS, DRY WGT, UG/KG	06/02/87-06/02/87	Õ	$\overline{2}$	
BOWA0007	No	39300	P,P' DDT IN WHOLE WATÉR SAMPLE (ÚG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	5	4	
BOWA0002	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/87-06/02/87	0	2 5	
BOWA0006	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	06/02/87-06/02/87	0	5	
BOWA0014	No	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	0	2	
BOWA0007	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39310 39311	P,P' DDD IN WHOLE WATER SAMPLE (UG/L) P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/27/79-07/08/85 06/02/87-06/02/87	5 0	4	
BOWA0002 BOWA0006	No No	39311	P, P DDD IN TISSUE WET WGT (UG/KG DK F SOLIDS)	06/02/87-06/02/87	0	2 5	
BOWA0000 BOWA0014	No	39312	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	0	2	
BOWA0007	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	5	4	
BOWA0002	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/87-06/02/87	0	2	
BOWA0006	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/02/87-06/02/87	0	2 5	
BOWA0014	No	39327	ORTHO PARA DDE IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	0	2	
BOWA0004	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/13/83-07/13/83	0	1	
BOWA0007	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0013	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/13/83-07/13/83	0	1	
BOWA0014	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	5	2	
BOWA0002 BOWA0004	No No	39333 39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/87-06/02/87 06/28/94-10/21/96	$\frac{0}{2}$	2	
BOWA0004	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/14/93-10/29/96	3	3	
BOWA0008	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/28/94-10/21/96	2	5 2 2 3 2 3 7	
BOWA0013	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/14/93-10/29/96	3	3	
BOWA0014	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/04/81-07/29/96	15	7	
BOWA0007	No	39337	ALPHA BENZENE HEXACHLÒRIDE IN WHOLE WATER SAMP	09/14/87-09/14/87	0	1	
BOWA0014	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/03/84-07/08/85	0	2	
BOWA0007	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	09/14/87-09/14/87	0	1	
BOWA0014	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/03/84-07/08/85	0	2	
BOWA0007	No	39340	GAMMA-BHC(LINDANE), WHOLE WATER, UG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	39340 39343	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/03/84-07/08/85	$0 \\ 0$	2	
BOWA0002 BOWA0014	No No	39343	CHLORDANE(TECH MIX & METABS), WHOLE WATER, UG/L	06/02/87-06/02/87 11/27/79-07/25/80	0	2	
BOWA0014 BOWA0004	No	39351	CHLORDANE(TECH MIX & METABS), WHOLE WATER, UG/E CHLORDANE(TECH MIX & METABS), SEDIMENTS, DRY WGT, UG/KG	07/11/84-10/21/96	12	2 2 2 4	
BOWA0007	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/18/88-10/29/96	8	4	
BOWA0008	No	39351	CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG	08/16/88-10/21/96	8	3	
BOWA0013	No	39351	CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG	07/12/84-10/29/96	12	5	
BOWA0014	No	39351	CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG	09/12/84-07/29/96	11	6	
BOWA0004	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/11/84-10/21/96	12	4	
BOWA0007	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	8	4	
BOWA0008	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	8	3	
BOWA0013	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	12	5	
BOWA0014 BOWA0004	No No	39363 39368	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96 07/11/84-10/21/96	11 12	6 4	
BOWA0004 BOWA0007	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	8	4	
BOWA0007	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	8	3	
BOWA0013	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	12	5	
BOWA0014	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	11	6	
BOWA0004	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/11/84-10/21/96	12	4	
BOWA0007	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	8	4	
BOWA0008	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	8	3	
BOWA0013	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	12	5	
BOWA0014	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	11	6	
BOWA0007	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/10/71-07/08/85	14	5	
BOWA0002 BOWA0004	No No	39383 39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/87-06/02/87 07/11/84-10/21/96	0 12	2 4	
DO W A0004	110	37303	DILEDIGIN IN DOLLON DELOS. (OU/RILOGRAM DR.I. SOL.)	0//11/04-10/21/90	12	4	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0007	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/18/88-10/29/96	8	4	11015
BOWA0008	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/88-10/21/96	8	3	
BOWA0013	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/12/84-10/29/96	12	5	
BOWA0014	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/12/84-07/29/96	11	6	
BOWA0007	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	5	4	
BOWA0002 BOWA0004	No No	39393 39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/87-06/02/87 07/11/84-10/21/96	0 12	2 4	
BOWA0004 BOWA0007	No No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	8	4	
BOWA0008	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	8	3	
BOWA0013	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	12	5	
BOWA0014	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	11	6	
BOWA0007	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	0	2 2 4	
BOWA0002	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/87-06/02/87	0	2	
BOWA0004	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/11/84-10/21/96	12		
BOWA0007 BOWA0008	No No	39403 39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/18/88-10/29/96 08/16/88-10/21/96	8 8	4 3	
BOWA0008 BOWA0013	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/12/84-10/29/96	12	5	
BOWA0014	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/12/84-07/29/96	11	6	
BOWA0006	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/02/87-06/02/87	0	6	
BOWA0007	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	0	2	
BOWA0002	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/02/87-06/02/87	0	2 2 4	
BOWA0004	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/11/84-10/21/96	12	4	
BOWA0007	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	8	4	
BOWA0008	No No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	8	3 5	
BOWA0013 BOWA0014	No No	39413 39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS) HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96 09/12/84-07/29/96	12 11	6	
BOWA0007	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	ő		
BOWA0002	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/02/87-06/02/87	0	2 2 2 2 6	
BOWA0014	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	0	2	
BOWA0002	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/02/87-06/02/87	0	2	
BOWA0006	No	39482	METHOXYCHLOR IN FISH - UG/KG	06/02/87-06/02/87	0		
BOWA0007	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	0	1	
BOWA0014 BOWA0002	No No	39488 39491	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/03/84-07/08/85 06/02/87-06/02/87	0	2 2	
BOWA0002 BOWA0007	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	0	1	
BOWA0014	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	ő		
BOWA0002	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/02/87-06/02/87	0	2 2 1	
BOWA0007	No	39496	PCB - 1242 PCB SERIÉS WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	0		
BOWA0014	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	0	2 2 1	
BOWA0002	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/02/87-06/02/87	0	2	
BOWA0007	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	0		
BOWA0014 BOWA0002	No No	39500 39503	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/03/84-07/08/85 06/02/87-06/02/87	$0 \\ 0$	2 2 2 1	
BOWA0002	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/87-06/02/87	0	2	
BOWA0007	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	ő	ī	
BOWA0014	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	Ō		
BOWA0002	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/87-06/02/87	0	2 2 2	
BOWA0002	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/02/87-06/02/87	0		
BOWA0014	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	0	2	
BOWA0004	No	39526	PCBS TOTAL, IN SEDIMENT, DRY (ISOMÉR ANALYSES) UG/KG	07/11/84-10/21/96	12	4	
BOWA0007 BOWA0008	No No	39526 39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	08/18/88-10/29/96 08/16/88-10/21/96	8 8	4	
BOWA0008 BOWA0013	No	39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	07/12/84-10/29/96	12	5	
BOWA0014	No	39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	09/12/84-07/29/96	11	6	
BOWA0005	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	10/17/85-10/17/85	0	Ĭ	
BOWA0014	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	09/26/83-09/26/83	0	1	
BOWA0014	No	39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	05/04/81-04/21/82	0	2	
BOWA0014	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	0	2 2 6	
BOWA0002	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/02/87-06/02/87	0	2	
BOWA0006 BOWA0002	No No	39703 39705	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	06/02/87-06/02/87 06/02/87-06/02/87	$0 \\ 0$	2	
BOWA0002 BOWA0007	No No	39703 39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	0	2	
BOWA0007	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	ő	1	
BOWA0014	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	0	2	
BOWA0007	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	0	1	
BOWA0014	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	0	2	
BOWA0006	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	06/02/87-06/02/87	0	6	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station In Park Code Name Start - End BOWA0004 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 06/28/94-10/04/94 BOWA0007 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 09/14/93-10/06/94 BOWA0008 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 06/28/94-10/04/94 BOWA0003 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 06/28/94-10/04/94	Years 0 1 0 1	Obs 6 10	Plots!
BOWA0007 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 09/14/93-10/06/94 BOWA0008 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 06/28/94-10/04/94	1 0	10	
BOWA0008 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 06/28/94-10/04/94	0		
DOWLAGAS N. ACETO HADDNESS CANCELLOW APPER GASS AS CALCON	1	6	
BOWA0013 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 09/14/93-10/06/94		8	
BOWA0014 No 46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3) 07/28/92-07/28/92	0	1	
BOWA0004 No 70505 PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) 08/11/71-06/15/76	4	33	
BOWA0009 No 70505 PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) 08/11/71-06/15/76	4	25	
BOWA0012 No 70505 PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) 08/11/71-06/15/76	4	32	
BOWA0014 No 70505 PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) 03/17/70-06/26/79	9	89	C
BOWA0004 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 08/11/71-10/21/96 BOWA0007 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 05/13/91-10/24/96	25 5	56 24	S
BOWA0007 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 05/15/91-10/24/96 BOWA0008 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 06/28/94-10/21/96	2	23	
BOWA0009 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS 1) 00/28/34-10/21/70 BOWA0009 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 08/11/71-06/15/76	4	25	
BOWA0010 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 05/30/91-09/12/95	4	129	
BOWA0012 No 70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 08/11/71-06/15/76	4	32	
BOWA0013 No 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 05/13/91-10/24/96	5	18	
BOWA0014 No 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) 03/17/70-02/18/97	26	266	A,S
BOWA0003 No 71900 MERCURY, TOTAL (UG/L AS HG) 02/26/87-05/04/87	0	2	
BOWA0004 No 71900 MERCURY, TOTAL (UG/L AS HG) 08/11/71-10/04/94	23	84	T,S
BOWA0005 No 71900 MERCURY, TOTAL (UG/L AS HG) 05/10/84-10/21/86	2	24	
BOWA0007 No 71900 MERCURY, TOTAL (UG/L AS HG) 05/10/84-10/06/94	10	89	
BOWA0008 No 71900 MERCURY, TOTAL (UG/L AS HG) 04/24/85-10/04/94	9	52	
BOWA0009 No 71900 MERCURY, TOTAL (UG/L AS HG) 08/11/71-06/15/76	4	7	
BOWA0012 No 71900 MERCURY, TOTAL (UG/L AS HG) 08/11/71-06/15/76	4 11	9	
BOWA0013 No 71900 MERCURY, TOTAL (UG/L AS HG) 04/13/83-10/06/94 BOWA0014 No 71900 MERCURY, TOTAL (UG/L AS HG) 09/14/70-06/25/92	21	87 42	S
BOWA0014 No 71900 MERCURY, TOTAL (UG/L AS HG) 09/14/70-06/25/92 BOWA0002 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 06/02/87-06/02/87	0	2	3
BOWA0002 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 00/02/8/7-00/02/8/7 BOWA0004 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 07/13/83-10/21/96	13	8	
BOWA0005 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 07/12/84-07/12/84	0	1	
BOWA0007 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 07/12/84-10/29/96	12	9	
BOWA0008 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 08/16/88-10/21/96	8	5	
BOWA0013 No 71921 MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 07/13/83-10/29/96	13	10	
BOWA0014 No 71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT) 06/21/76-07/29/96	20	11	
BOWA0006 No 71930 MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS 06/02/87-06/02/87	0	6	
BOWA0006 No 71936 LEAD, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS 06/02/87-06/02/87	0	6	
BOWA0006 No 71937 COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS 06/02/87-06/02/87	0	6	
BOWA0006 No 71938 ZINC, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS 06/02/87-06/02/87	0	6	
BOWA0006 No 71939 CHROMIUM, TOT IN FISH OR ANIMALS-WET WEIGHT BASIS 06/02/87-06/02/87	0	6	
BOWA0006 No 71940 CADMIUM, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS 06/02/87-06/02/87	0	6	
BOWA0001 No 72025 DEPTH OF POND OR RESERVOIR IN FEET 04/04/73-09/28/73 BOWA0004 No 75045 HEPTACHLOR EPOXIDE SEDIMENT,DRY,WT,UG/KG 06/28/94-10/21/96	0 2	3 2	
BOWA0007 No 75045 HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG 09/14/93-10/29/96	3	3	
BOWA0008 No 75045 HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG 06/28/94-10/21/96	2	2	
BOWA0013 No 75045 HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG 09/14/93-10/29/96	3	2 3 5 2 2 2 6	
BOWA0014 No 75045 HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG 07/28/92-07/29/96	4	5	
BOWA0002 No 75212 BENZYL ALCOHOL SEDIMENT, DRY WGT, UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 75315 BENZOIC ACID SEDIMENT, DRY WGT, UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 75647 DIBENZOFURAN SEDIMENT, DRY WGT, UG/KG 06/02/87-06/02/87	0	2	
BOWA0006 No 76184 BENZYL ALCOHOL TISSUE ,WET WGT,MG/KG 06/02/87-06/02/87	0		
BOWA0006 No 76287 BENZOIC ACID TISSUE ,WET WGT,MG/KG 06/02/87-06/02/87	0	6	
BOWA0006 No 76619 DIBENZOFURAN TISSUÉ, WET WGT, MG/KG 06/02/87-06/02/87	0	6	
BOWA0007 No 77825 ALACHLOR WHOLE WATER, UG/L 09/14/87-09/14/87	0	1	
BOWA0014 No 77825 ALACHLOR WHOLE WATER, UG/L 10/03/84-07/08/85	0	2	
BOWA0006 No 78211 ENDRIN KETONE IN FISH TISSUE WETWTMG/KG 06/02/87-06/02/87 BOWA0002 No 78299 2-NITROANILINE IN SEDIMENT, DRY WEIGHT UG/KG 06/02/87-06/02/87	$0 \\ 0$	6 2	
BOWA0002 No 78401 2,4,5-TRICHLOROPHENOL IN SEDIMENT, DRY WEIGHT, UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 78545 CHLORDENE,ALPHA,IN SEDIMENT UG/KG 06/02/87-06/02/87	ő	2	
BOWA0002 No 78546 CHLORDENE.GAMMA, IN SEDIMENT UG/KG 06/02/87-06/02/87	ő	2	
BOWA0002 No 78800 BUTYL BENZYL PHTHALATE IN SEDIMENT DRY WT UG/KG 06/02/87-06/02/87	Õ	2 2 2 2	
BOWA0002 No 78803 P-CRESOL (4-METHYL PHENOL) IN SED DRY WGT UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 78828 BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 78867 4-CHLOROANILINE IN SEDIMENT DRY WEIGHT UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 78868 2-METHYLNAPHTHALENE IN SEDIMENT DRY WEIGHT UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 78869 3-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG 06/02/87-06/02/87	0	2	
BOWA0002 No 78870 4-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG 06/02/87-06/02/87	0	2 2 2 2 2 2	
BOWA0002 No 78872 2-METHYLPENOL(O-CRESOL) SEDIMENT DRY WEIGHT UG/KG 06/02/87-06/02/87 BOWA0006 No 79041 BENZO(GHI)PERYLENE TISWETWTMG/KG 06/02/87-06/02/87	$0 \\ 0$	6	
BOWA0006 No 79053 4-CHLOROANILINE TISDRYWTMG/KG 06/02/87-06/02/87 60/02/87-06/02/87	0	1	
BOWA0006 No 79055 2-METHYLNAPHTHALENE TISDRYWTMG/KG 06/02/87-06/02/87	0	1	
BOWA0006 No 79056 2-NITROANILINE TISDRYWTMG/KG 06/02/87-06/02/87	0	1	
BOWA0006 No 79057 3-NITROANILINE TISDRYWTMG/KG 06/02/87-06/02/87	ő	i	
BOWA0006 No 79058 4-NITROANILINE TISDRYWTMG/KG 06/02/87-06/02/87	0	1	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
BOWA0006	No	79145	2-METHYLPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	79146	4-METHYLPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	79147	2,4,5-TRICHLOROPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	79156	4,6-DINITRO-2-METHYLPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	79163	4,4'-DDT TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	79164	4,4'-DDE TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0006	No	79166	4,4'-DDD TISDRYWTMG/KG	06/02/87-06/02/87	0	1	
BOWA0004	No	79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	06/28/94-10/21/96	2	2	
BOWA0007	No	79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	09/14/93-10/29/96	3	3	
BOWA0008	No	79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	06/28/94-10/21/96	2	2	
BOWA0013	No	79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	09/14/93-10/29/96	3	2 3 2 3 5	
BOWA0014	No	79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	07/28/92-07/29/96	4		
BOWA0006	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/02/87-06/02/87	0	6	
BOWA0006	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	06/02/87-06/02/87	0	6	
BOWA0007	No	82032	CALCIUM - TOTAL UG/L (AS CA)	10/05/92-10/05/92	0	3	
BOWA0013	No	82032	CALCIUM - TOTAL UG/L (AS CA)	10/05/92-10/05/92	0	3	
BOWA0014	No	82032	CALCIUM - TOTAL UG/L (AS CA)	07/28/92-07/28/92	0	1	
BOWA0004	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	06/28/94-06/28/94	0	3	
BOWA0007	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	09/14/93-10/19/93	0	3 6 3 64	
BOWA0008	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	06/28/94-06/28/94	0	3	
BOWA0010	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/92-06/21/94	1	64	
BOWA0013	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	09/14/93-10/19/93	0	6	
BOWA0014	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/01/92-06/23/94	1	87	
BOWA0002	No	82427	POTASSIUM, DISSOLVED FROM DRY DEPOSITION MG/KG	06/02/87-06/02/87	0	2	
BOWA0002	No	82557	ENDRIN KEÝTONE IN BOTTOM DEPOSITS SEDDRYWGTMG/KG	06/02/87-06/02/87	0	2	
BOWA0006	No	84007	ANATOMY ALPHA CODE	06/02/87-06/02/87	0	6	
BOWA0006	No	85759	NITROANILINE, 2-, TISSUE, WET WT, MG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	85760	CHLORANILINÉ, 4-, TISSUÉ, WET WT, MG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	85762	NITROANILINE, 4- , TISSUE, WET WT, MG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	85763	NITROANILINE, 3- , TISSUE, WET WT, MG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	85764	TRICHLOROPHENOL, 2,4,5-, TISSUE, WET WT, MG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	85765	METHYLNAPHTHALÉNÉ, 2-, TISSUÉ, WET WT, MG/KG	06/02/87-06/02/87	0	5	
BOWA0006	No	85766	METHYLPHENOL, 4- , TIŚSUÉ, WET WT, MG/KĠ	06/02/87-06/02/87	0	2 6 5 5 5 5 5 5 5	
BOWA0006	No	85767	METHYLPHENOL, 2-, TISSUE, WET WT, MG/KG	06/02/87-06/02/87	0	5	

^{&#}x27;T=Time Series Plot, A=Annual Plot, S=Seasonal Plot

Station-By-Station Results

Station Inventory for Station: BOWA0001

NPS Station ID: BOWA0001 Location: SMITH MOUNTAIN LAKE LAT/LON: 37.119448/ -79.663892

Agency: 11EPALES FIPS State/County: 51019 VIRGINIA/BEDFORD

Station Type: /TYPA/AMBNT/LAKE

STORET Station ID(s): 511003 Within Park Boundary: No

RMI-Indexes: RMI-Miles: HUC: 03010101 Major Basin:

Depth of Water: 100 Elevation: 0

Aquifer: Water Body Id:

Minor Basin: RF1 Index: 03010101024 ECO Region: Distance from RF1: 0.00

On/Off RF1: OFF On/Off RF3:

Date Created: / /

RF3 Index: 03010101002711.86

RF1 Mile Point: 24.570 RF3 Mile Point: 12.83

Distance from RF3: 0.03

ABOUT 3 MILES WEST OF SITE NO. 2 IN OLD CHANNEL OF BLACKWATER RIVER, 85 DEGREES FROM LARGE GREEN-ROOFED A-FRAME HOUSE, 300 DEGREES FROM LARGE WHITE BOATHOUSE ABOUT ONE MILE AWAY, 300 FT FROM NORTH SHORE OF THIS SOUTHWESTERN ARM OF THE LAKE; SITE IS ON MONETA SOUTHWEST QUAD MAP (7-1/2 FT). COMMENTS: 4-4, ULE 17, NO VISIBLE AQUATICS. 7-16, ULE 14, TEMPERATURE

STRUCTURE SIMILAR TO SITE 2; CLEAR GREEN WATER; NO HIGHER AQUATICS OR SURFACE ALGAE; DEPTH 70 FT. 9-28 ULE 13, FAIRLY CLEAR GREEN; NO SURF ALGAE OR HIGHER AQUATICS; 1% LIGHT AT 25 FT; DEPTH 86 FT. USGS MAP:

Parameter Inventory for Station: BOWA0001

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/04/73-09/28/73	20	16.85	16.71	27.	7.2	48.387	6.956	7.46	10.25	23.3	26.98
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/28/73-09/28/73	6	85.	84.167	86.	80.	4.567	2.137	**	**	**	**
00077	TRANSPARÉNCY, SECCHI DISC (INCHES)	04/04/73-09/28/73	3	84.	76.667	110.	36.	1409.333	37.541	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/04/73-09/28/73	20	139.5	127.15	156.	75.	686.345	26.198	78.	120.75	145.75	147.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	04/04/73-09/28/73	20	451.5	518.8	1115.	178.	97249.853	311.849	179.6	244.	790.5	1036.7
00300	OXYGEN, DISSOLVED MG/L	04/04/73-09/28/73	17	8.	6.635	11.3	0.2	16.95	4.117	0.2	2.7	10.5	11.06
00400	PH (STANDARD UNITS)	04/04/73-09/28/73	20	7.6	7.49	8.8	6.2	0.54	0.735	6.41	7.025	7.9	8.68
00400	CONVERTED PH (STANDARD UNITS)	04/04/73-09/28/73	20	7.6	6.979	8.8	6.2	0.815	0.903	6.41	7.025	7.9	8.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/73-09/28/73	20	0.025	0.105	0.631	0.002	0.028	0.167	0.002	0.013	0.095	0.39
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/04/73-09/28/73	20	58.	52.75	74.	20.	341.355	18.476	20.	40.25	69.	73.
00610	NITROGEN, AMMONIA, TOTAL (MG/L ÁS N)	04/04/73-09/28/73	20	0.055	0.063	0.16	0.03	0.001	0.032	0.03	0.04	0.07	0.118
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS Ń)	04/04/73-09/28/73	20	0.4	0.435	0.9	0.3	0.021	0.146	0.3	0.3	0.5	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/04/73-09/28/73	20	0.33	0.289	0.5	0.07	0.02	0.14	0.073	0.128	0.405	0.473
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/04/73-09/28/73	20	0.016	0.018	0.047	0.007	0.	0.01	0.008	0.011	0.023	0.037
00671	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	04/04/73-09/28/73	20	0.003	0.005	0.014	0.001	0.	0.004	0.001	0.002	0.008	0.011
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/04/73-09/28/73	3	4.5	11.8	27.7	3.2	190.03	13.785	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	04/04/73-09/28/73	3	86.	85.333	100.	70.	225.333	15.011	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-8/01-10/14			10/15-4/30-			-5/01-7/31-			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	17	6	0.35	5	4	0.80	7	0	0.00	5	2	0.40			
00400	PH	Other-Hi Lim.	9.	20	0	0.00	6	0	0.00	8	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	20	3	0.15	6	3	0.50	8	0	0.00	6	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	20	0	0.00	6	0	0.00	8	0	0.00	6	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0002

NPS Station ID: BOWA0002 LA Location: SMITH MOUNTAIN LAKE AT ROUTE 122 BRIDGE LAT/LON: 37.137503/ -79.666671

Station Type: /TYPA/AMBNT/LAKE/SOLIDS RMI-Indexes:

RMI-miles:
HUC: 03010101
Major Basin: SOUTHEAST
Minor Basin: ROANOKE RIVER
RF1 Index: 03010101

RF3 Index: 03010101001009.85

Description:

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 10.00

Date Created: 10/01/88

Agency: 1113WSWQ FIPS State/County: 51019 VIRGINIA/BEDFORD STORET Station ID(s): RO-1 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.60 Distance from RF3: 0.05

On/Off RF1: On/Off RF3:

Parameter Inventory for Station: BOWA0002

Paramete	r	Period of Record	Obs Me	dian	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00495	MOISTURE CONTENT (PERCENT OF TOTAL DRY WEIGHT)	06/02/87-06/02/87	2 6	51.5	61.5	62.	61.	0.5	0.707	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/02/87-06/02/87	2 653	30.	6530.	6640.	6420.	24200.	155.563	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/02/87-06/02/87	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/02/87-06/02/87	2 15	59.5	159.5	160.	159.	0.5	0.707	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/02/87-06/02/87	2 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/02/87-06/02/87	1 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/02/87-06/02/87	2 ## 3	34.75	34.75	37.5	32.	15.125	3.889	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/02/87-06/02/87	2 ## 1	13.	13.	13.	13.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/02/87-06/02/87	2 ## 2	20.5	20.5	20.5	20.5	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/02/87-06/02/87	2 33	38.	338.	347.	329.	162.	12.728	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/87-06/02/87	2 ## 1	11.	11.	11.	11.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/02/87-06/02/87	2 ##	1.425	1.425	1.45	1.4	0.001	0.035	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/02/87-06/02/87	2 ## 3	35.75	35.75	39.5	32.	28.125	5.303	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/02/87-06/02/87	2 ϵ	51.	61.	64.	58.	18.	4.243	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/02/87-06/02/87	2 2175	50.	21750.	23700.	19800.	7605000.	2757.716	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/02/87-06/02/87	2 3955	50.	39550.	41700.	37400.	9245000.	3040.559	**	**	**	**
32731	PHENOLICS IN BOTTOM DEPOSITS (MG/KG DRY WGT)	06/02/87-06/02/87	2 ## 28	35.	285.	285.	285.	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28	35.	285.	285.	285.	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28	35.	285.	285.	285.	Õ.	Õ.	**	**	**	**
34233	BENZO(B)FLUORANTHENE.SEDIMENTS.DRY WGT.UG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT. SEDIMENT UG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0	0	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	06/02/87-06/02/87		7.	7	7	7	0	0	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/02/87-06/02/87		7.	7	7	7	0	0	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0	0	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0	0	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	06/02/87-06/02/87		14.	14.	14.	14.	0.	0.	**	**	**	**
34359	ENDOSULFAN. BETA DRY WGTBOTUG/KG	06/02/87-06/02/87		14.	14.	14.	14.	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	06/02/87-06/02/87		7.	7.	7.	7	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 28		285.	285.	285.	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2## 28		285.	285.	285.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2## 28		285.	285.	285.	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	06/02/87-06/02/87	2## 28		285.	285.	285.	0. 0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0002

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Paramete	r	Period of Record	Obs Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285. 285.	0.	0.	**	**	**	**
34445 34450	NAPHTHALENE DRY WGTBOTUG/KG NITROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87 06/02/87-06/02/87	2 ## 285. 2 ## 285.	285. 285.	285. 285.	285. 285.	0. 0.	0. 0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285. 2 ## 285.	285. 285.	285. 285.	285. 285.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	06/02/87-06/02/87	2 ## 285.	285.	285. 285.	285.	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/02/87-06/02/87	2 ## 0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34569 34574	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285. 2 ## 285.	285. 285.	285. 285.	285. 285.	0.	0.	**	**	**	**
34574 34584	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG 2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	06/02/87-06/02/87 06/02/87-06/02/87	2 ## 285. 2 ## 285.	285. 285.	285. 285.	285. 285.	0.	0. 0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2## 285.	285.	285.	285. 285.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	Ö.	Ö.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
34634 34639	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG 4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87 06/02/87-06/02/87	2 ## 550. 2 ## 285.	550. 285.	550. 285.	550. 285.	0. 0.	0. 0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 285. 2 ## 285.	285. 285.	285. 285.	285.	0. 0.	0. 0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	Õ.	Õ.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/02/87-06/02/87	2 ## 7.	7.	7.	7.	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE, SEDIMENT, DRY WGT, UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
39112	DI-Ň-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/87-06/02/87	2 ## 14.	14.	14.	14.	0.	0.	**	**	**	**
39311 39321	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/87-06/02/87 06/02/87-06/02/87	2 ## 14. 2 ## 14.	14.	14.	14. 14.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (ÙG/KG DRY SOLIDS) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/87-06/02/87	2 ## 14. 2 ## 7.	14. 7.	14. 7.	14. 7	0.	0. 0.	**	**	**	**
39343	GAMMA-BHC(LINDANE), SEDIMENTS, DRY WGT, UG/KG	06/02/87-06/02/87	2 ## 7.	7. 7.	7.	7.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/87-06/02/87	2 ## 14.	14.	14.	14.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/87-06/02/87	2 ## 14.	14.	14.	14.	Õ.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/87-06/02/87	2 ## 140.	140.	140.	140.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/02/87-06/02/87	2 ## 7.	7.	7.	7.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/02/87-06/02/87	2 ## 7.	7.	7.	7.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/02/87-06/02/87	2 ## 70.	70.	70.	70.	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	06/02/87-06/02/87	2 ## 70.	70.	70.	70.	0.	0.	**	**	**	**
39495 39499	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/02/87-06/02/87	2 ## 70. 2 ## 70.	70. 70.	70. 70.	70. 70.	0.	0.	**	**	**	**
39499 39503	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/RG PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/87-06/02/87 06/02/87-06/02/87	2 ## 70. 2 ## 70.	70. 70.	70. 70.	70. 70.	0. 0	0. 0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/87-06/02/87	2 ## 140.	140.	140.	140.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/87-06/02/87	2 ## 140.	140.	140.	140.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/02/87-06/02/87	2 ## 70.	70.	70.	70.	Ö.	Ö.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
71921	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/02/87-06/02/87	2 ## 0.275		0.5	0.05	0.101	0.318	**	**	**	**
75212	BENZYL ALCOHOL SEDIMENT, DRY WGT, UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
75315	BENZOIC ACID SEDIMENT, DRY WGT, UG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
75647	DIBENZOFURAN SEDIMENT, DRY WGT, UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
78299 78401	2-NITROANILINE IN SEDIMENT, DRY WEIGHT UG/KG 2.4,5-TRICHLOROPHENOL IN SEDIMENT, DRY WEIGHT, UG/KG	06/02/87-06/02/87 06/02/87-06/02/87	2 ## 1400. 2 ## 1400	1400. 1400.	1400. 1400.	1400. 1400.	0. 0	0. 0.	**	**	**	**
78545	CHLORDENE, ALPHA, IN SEDIMENT UG/KG	06/02/87-06/02/87	2 ## 1400. 2 ## 70.	70.	1400. 70.	70.	0. 0.	0. 0.	**	**	**	**
78546	CHLORDENE, GAMMA, IN SEDIMENT UG/KG	06/02/87-06/02/87	2 ## 70.	70.	70.	70.	0.	0.	**	**	**	**
, 00 .0		22,02,07,00,02/07	2	,	,	,	٠.	٠.				

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0002

Paramete	r	Period of Record	Obs Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78800	BUTYL BENZYL PHTHALATE IN SEDIMENT DRY WT UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
78803	P-CRESOL (4-METHYL PHENOL) IN SED DRY WGT UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
78828	BENZO(GHÌ)PERYLENE IN SEDÍMENT DRY WEIGHT UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
78867	4-CHLOROÁNILINE IN SEDIMENT DRY WEIGHT UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
78868	2-METHYLNAPHTHALENE IN SEDIMENT DRY WEIGHT UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
78869	3-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
78870	4-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	06/02/87-06/02/87	2 ## 1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
78872	2-METHYLPENOL(O-CRESOL) SEDIMENT DRY WEIGHT UG/KG	06/02/87-06/02/87	2 ## 285.	285.	285.	285.	0.	0.	**	**	**	**
82427	POTASSIUM, DISSOLVED FROM DRY DEPOSITION MG/KG	06/02/87-06/02/87	2 6100.	6100.	6420.	5780.	204800.	452.548	**	**	**	**
82557	ENDRIN KEÝTONE IN BOTTOM DEPOSITS SEDDRYWGTMG/KG	06/02/87-06/02/87	2 ## 14.	14.	14.	14.	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

			Total	Exceed	Prop.		8/01-10/14			-10/15-4/30-			5/01-7/31-			n/a	
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
34461 PHENANTHRENE TOTAL	Fresh Acute	30	0.8	0	0.00			-			-			-			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0003

LAT/LON: 37.145559/ -79.666699

NPS Station ID: BOWA0003 Location: SMITH MOUNTAIN LAKE AT RT 122 BRIDGE

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles: HUC: 03010101 Major Basin: SOUTHEAST

Minor Basin: ROANOKE RIVER RF1 Index: 03010101

RF3 Index: 03010101002807.09 Description:

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 7.09

Agency: 1113WSWQ FIPS State/County: 51019 VIRGINIA/BEDFORD STORET Station ID(s): SWT01 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 3.90 Distance from RF3: 0.02

On/Off RF1: On/Off RF3:

Date Created: 10/17/87

Parameter Inventory for Station: BOWA0003

Paramete	er	Period of Record	Obs Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	02/26/87-05/04/87	2 ## 2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (ÙG/L AS BA)	02/26/87-02/26/87	1 ## 125.	125.	125.	125.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/26/87-05/04/87	2 ## 1.75	1.75	2.5	1.	1.125	1.061	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/26/87-05/04/87	2 ## 3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/04/87-05/04/87	1 ## 12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/26/87-05/04/87	2 ## 3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01067	NICKÉL, TOTAL (UG/L AS ŃI)	05/04/87-05/04/87	1 ## 20.	20.	20.	20.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/26/87-02/26/87	1## 1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/04/87-05/04/87	1 ## 10.	10.	10.	10.	0.	0.	**	**	**	**
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	02/26/87-02/26/87	1 ## 2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/26/87-05/04/87	2 ## 0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		8/01-10/14			-10/15-4/30-			5/01-7/31-			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	$0.0\bar{0}$				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5.	2	0	0.00				1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

			Lotal	Exceed	Prop.		8/01-10/14			-10/15 - 4/30-			5/01-7/31-			n/a	
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	2	0	$0.0\bar{0}$			-	1	0	0.00	1	0	0.00			
	Drinking Water	2.	2	0	0.00				1	0	0.00	- 1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0004

NPS Station ID: BOWA0004 Location: SMITH MTN. LAKE, HALES FORD

VIRGINIA STATE WATER CONTROL BOARD

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hides: HUC: 03010101 Major Basin: 03-SOUTHEAST Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101

RF3 Index: 03010101

RIVER: ROANOKE RIVER

Depth of Water: 0 Elevation: 0

SECTION: 05

RF1 Mile Point: 0.000 RF3 Mile Point: 3.17

LAT/LON: 37.145559/ -79.666948

DIES BASIN: 4A ROANOKE REGII TOPO MAP #: 0043 TOPO MAP NAME: GOODVIEW, VA LAKE STUDIES REGION: 2 WEST CENTRAL

Agency: 21VASWCB FIPS State/County: 51019 VIRGINIA/BEDFORD STORET Station ID(s): 4AROA175.63 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 3.20
Distance from RF3: 0.16

On/Off RF1: On/Off RF3:

Date Created: 10/10/87

Parameter Inventory for Station: BOWA0004

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	179	17.	17.826	30.6	4.9	48.391	6.956	8.2	12.	25.	27.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/17/88-08/27/90	13	3.7	25.646	248.	1.1	4553.618	67.48	1.18	1.5	14.05	162.4
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/94-10/21/96	23	4.	6.274	23.	2.	30.007	5.478	2.12	2.7	8.1	16.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/28/94-10/21/96	10	1.9	1.86	2.	1.6	0.023	0.151	1.6	1.75	2.	2.
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	08/16/88-10/21/96	55	198.	190.364	267.	70.	2048.31	45.258	138.	160.	220.	247.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	10/02/89-10/21/96	30	233.	229.633	284.	177.	785.964	28.035	188.6	207.75	252.5	265.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/28/94-10/21/96	26	5.15	5.523	11.5	0.2	13.662	3.696	0.47	2.025	9.075	10.58
00300p	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	152	8.05	6.664	13.6	0.	15.059	3.881	0.5	2.9	9.775	11.
00310	BOD, 5 DAY, 20 DEG C MG/L	06/29/72-10/02/89	5	3.	3.1	6.5	1.	4.3	2.074	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/25/89-10/02/89	9	9.	9.222	15.	3.	17.944	4.236	3.	5.5	13.5	15.
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	178	7.9	8.014	9.8	6.1	0.733	0.856	7.	7.375	8.8	9.2
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	178	7.9	7.316	9.8	6.1	1.223	1.106	7.	7.375	8.8	9.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	178	0.013	0.048	0.794	0.	0.014	0.117	0.001	0.002	0.042	0.1
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	121	7.6	7.7	9.4	6.5	0.368	0.606	7.1	7.3	8.1	8.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	121	7.6	7.372	9.4	6.5	0.476	0.69	7.1	7.3	8.1	8.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	121	0.025	0.042	0.316	0.	0.003	0.057	0.002	0.008	0.05	0.079
00410p	ALKALINÎTY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	122	77.	77.361	111.	10.	220.216	14.84	60.3	67.75	88.	95.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/20/72-07/20/72	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	122	137.5	136.664	206.	40.	569.051	23.855	110.	120.	153.	166.4
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	122	32.	33.27	140.	0.	218.1	14.768	18.	26.	40.	47.7
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	122	104.5	103.361	150.	11.	470.563	21.692	81.	89.75	115.25	128.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	123	3.	5.923	57.	0.5	65.476	8.092	1.5	2.5	7.	12.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	123 ##	2.5	2.789	9.	0.5	3.197	1.788	1.5	1.5	3.	5.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	121 ##	2.5	4.202	48.	0.	48.123	6.937	0.5	1.5	3.	8.8
00610p	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	148 ##		0.099	0.96	0.01	0.019	0.138	0.02	0.05	0.1	0.2
00615p	NITRITE NITROGEN, TÓTAL (MĠ/L AS N)	08/11/71-10/21/96	147	0.01	0.013	0.09	0.005	0.	0.014	0.005	0.005	0.02	0.03
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	147	0.34	0.346	2.2	0.005	0.098	0.313	0.02	0.05	0.52	0.754
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	08/11/71-10/21/96	148	0.4	0.399	1.4	0.02	0.055	0.235	0.19	0.2	0.5	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	115	0.02	0.034	0.2	0.005	0.001	0.038	0.005	0.01	0.04	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	77	0.01	0.023	0.5	0.005	0.004	0.059	0.005	0.005	0.02	0.042
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/17/88-10/02/89	12	2.9	3.033	4.4	1.8	0.781	0.884	1.86	2.2	4.	4.34
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/09/87-10/01/90	41	90.	88.463	114.	58.	213.455	14.61	70.	77.5	102.	108.
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	35	10.	10.171	17.	6.	4.734	2.176	8.	9.	11.	13.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0004

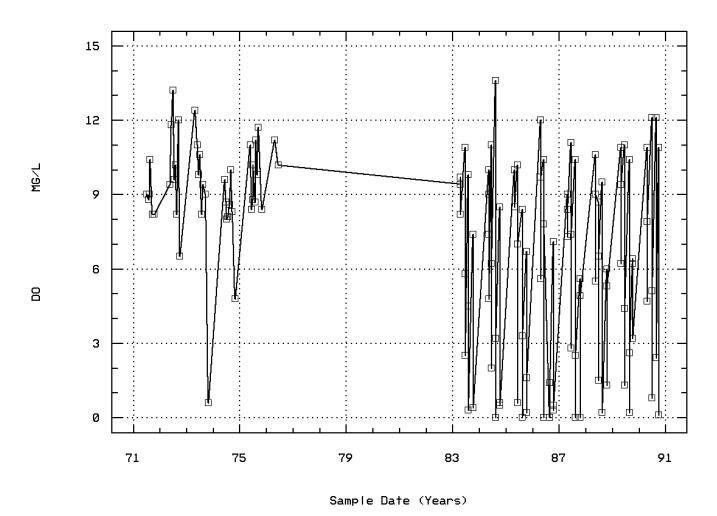
Paramete	r e e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	35	14.	17.314	116.	10.	301.457	17.363	11.6	13.	16.	18.8
00951	FLUORIDE, TOTAL (MG/L AS F)	04/25/89-10/02/89	8	0.165		0.2	0.13	0.001	0.026	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/89-10/02/89	5	7.7	8.92	12.2	6.1	7.327	2.707	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	79 ##	2.5	2.525	26.	0.5	11.762	3.43	0.5	0.5	2.5	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/13/83-10/21/96	7	9.	13.271	30.	7.	81.616	9.034	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/16/88-08/16/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/28/94-10/21/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	81 ##	1.5	2.36	50.	0.1	31.746	5.634	0.5	0.5	1.5	5.
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/13/83-10/21/96	7	1.	0.95	2.5	0.1	0.636	0.797	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/13/83-10/21/96	7	55.	59.314	79.2	48.	113.225	10.641	**	**	**	**
01034p	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	83 ##	5.	10.313	62.	0.5	158.303	12.582	0.5	1.	25.	25.
01042p	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	83 ##	10.	12.355	48.	2.5	94.54	9.723	5.	5.	25.	25.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/13/83-10/21/96	7	43.6	43.8	48.8	39.2	12.16	3.487	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	69	140.	733.884	26780.		0389312.751	3223.246	31.	60.	410.	1100.
01051p	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	83 ##	5.	5.855	79.	0.5	99.906	9.995	0.5	1.	5.	10.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/13/83-10/21/96	6	58.55	86.683	225.	46.	4775.602	69.106	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/27/90-10/21/96	2	750.	750.	781.	719.	1922.	43.841	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	73	25.	74.647	781.	5.	16165.341	127.143	5.	10.	75.	206.
01059	THALLIUM, TOTAL (UG/L AS TL)	08/16/88-08/16/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/01/73-06/15/76	4 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	73 ##	25.	22.185	80.	2.5	339.087	18.414	5.	5.	25.	50.
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/13/83-10/21/96	7	36.	37.729	54.2	28.	72.189	8.496	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	83 ##	10.	22.247	220.	2.5	1213.813	34.84	5.	5.	25.	28.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/13/83-10/21/96	6	200.6	212.74	466.	2.24	22042.162	148.466	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/21/96-10/21/96	1 5	9400.	59400.	59400.	59400.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	73 ##	2.5	2.507	10.	0.5	7.371	2.715	0.5	0.5	2.5	5.
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/13/83-10/21/96	7	7.9	7.043	13.	1.	13.06	3.614	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/21/96-10/21/96	1 6	6400.	66400.	66400.	66400.	0.	0.	**	**	**	**
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 Ć	07/07/71-10/21/96	49 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
31616 31616	FECAL COLIFORM, MEMBR FÌLTER, M-FC BROTH, 44.5 Ć LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-10/21/96 07/07/71-10/21/96			50.	50. 1.699	50. 1.699	0. 0.	0. 0.	50. 1.699	50. 1.699	50. 1.699	50. 1.699
31616 31616			49 ## 49 ##	50.	50.					1.699	1.699	1.699	
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-10/21/96	49 ## 49 ##	50.	50. 1.699 50.					1.699			1.699
31616 31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-10/21/96 GEOMETRIC MEAN	49 ## 49 ##	50. 1.699	50. 1.699 50.	1.699	1.699	0.	0.	1.699	1.699	1.699	1.699
31616 31616 32210 32211	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90	49 ## 49 ## 4	50. 1.699 12.935	50. 1.699 50. 16.148	1.699 29.22	1.699 9.5 0.	0. 81.903	0. 9.05	1.699	1.699	1.699	1.699
31616 31616 32210 32211 32218	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90	49 ## 49 ## 4	50. 1.699 12.935 8.81	50. 1.699 50. 16.148 6.003	1.699 29.22 9.2	1.699 9.5	0. 81.903 27.068	0. 9.05 5.203	1.699 ** **	1.699 ** **	1.699 ** **	1.699 ** **
31616 31616 32210 32211 32218 32219	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90	N = 49 ## 49 ## 4 3 3	50. 1.699 12.935 8.81 12.42 1.5	50. 1.699 50. 16.148 6.003 14.423	1.699 29.22 9.2 30.75 1.62	1.699 9.5 0. 0.1 1.19	0. 81.903 27.068 237.866	9.05 5.203 15.423	1.699 ** **	1.699 ** ** **	1.699 ** ** **	1.699 ** ** **
31616 31616 32210 32211 32218	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90	V = 49 ## 49 ## 4 3 3 4	50. 1.699 12.935 8.81 12.42	50. 1.699 50. 16.148 6.003 14.423 1.453	1.699 29.22 9.2 30.75	1.699 9.5 0. 0.1	0. 81.903 27.068 237.866 0.034	0. 9.05 5.203 15.423 0.184	1.699 ** ** ** **	1.699 ** ** ** **	1.699 ** ** ** **	1.699 ** ** ** **
31616 31616 32210 32211 32218 32219 34480	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96	V = 49 ## 49 ## 4 3 3 4 1 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5	1.699 29.22 9.2 30.75 1.62 2.5	1.699 9.5 0. 0.1 1.19 2.5	0. 81.903 27.068 237.866 0.034 0.	0. 9.05 5.203 15.423 0.184 0.	1.699 ** ** ** ** **	1.699 ** ** ** ** **	1.699 ** ** ** ** **	1.699 ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96	V = 49 ## 49 ## 4 3 3 4 1 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337	1.699 29.22 9.2 30.75 1.62 2.5 70. 0.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1	0. 9.05 5.203 15.423 0.184 0. 40.412	1.699 ** ** ** ** **	1.699 ** ** ** ** ** **	1.699 ** ** ** ** ** **	1.699 ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(0D 63) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/13/83-07/13/83 06/28/94-10/21/96	N = 49 ## 49 ## 4 3 3 4 1 ## 3 ## 1	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30.	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30.	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1 0.	0. 9.05 5.203 15.423 0.184 0. 40.412 0.	1.699 ** ** ** ** ** **	1.699 ** ** ** ** ** ** **	1.699 ** ** ** ** ** **	1.699 ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/13/83-07/13/83 06/28/94-10/21/96	V = 49 ## 49 ## 43 3 4 1 ## 1 ## 1 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30. 0.5	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12.	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919	1.699 ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** **	1.699 ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39330 39333 39351 39363	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	N = 49 ## 49 ## 4 3 3 4 1 ## 3 ## 1 1 ## 3 ## 3 ## 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30. 0.5 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12. 5.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15.	9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39333 39351 39363 39368	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 4 3 3 4 1 ## 3 ## 1 1 ## 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30. 0.5 0.05 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 12. 5.033 5.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15.	9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39363 39368 39373	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	N = 49 ## 49 ## 4 3 3 4 1 ## 3 ## 3 ## 3 ## 3 ## 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30. 0.5 0.05 0.05	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 30. 12. 5.033 5.033 10.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 15. 30.	9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501 299.001	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39368 39373 39383	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 4 3 3 4 4 1 ## 3 ## 1 1 ## 3 ## 3 ## 3 ## 3 ## 3	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.30. 0.5 0.05 0.05 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12. 5.033 5.033 5.033 5.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 15.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501 299.001 74.501	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292 8.631	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39368 39373 39368 39373 39383	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(0D 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 3 3 3 4 1 ## 1 1 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 30. 12. 5.033 10.033 5.033 10.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 15. 30.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 396.75 74.501 299.001 74.501 299.001	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292 8.631 17.292	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39363 39363 39373 39383 39393 39403	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLLS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 3 3 4 1 ## 3 ## 3 ## 3 ## 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 12. 5.033 5.033 10.033 5.033 10.033 48.667	1.699 29.22 9.2 30.75 1.62 2.5 70 0. 30. 35. 15. 30. 145.	9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 299.001 74.501 299.001 6960.083	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292 8.631 17.292 83.427	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39368 39373 39383 39393 39403 39413	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 3 3 4 1 ## 1 1 ## 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.5 0.05 0.05 0.05 0.05 0.0	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 15. 30. 145.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501 299.001 74.501 299.001 6960.083 74.501	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292 8.631 17.292 83.427 8.631	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39368 39373 39368 39373 39403 39403 39403 39413 39526	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(0D 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 4 3 3 4 ## 1 1 ## 3 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.5 0.05 0.05 0.05 0.05 0.0	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 48.667 5.033 10.333	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 145. 30. 145. 30.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 299.001 74.501 299.001 6960.083 74.501 290.083	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 17.292 8.631 17.292 83.427 8.631 17.032	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** ** *
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39363 39373 39383 39403 39413 39526 46570	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY. (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 3 3 4 ## 3 ## 1 ## 3 ## 3 ## 3 3 ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.05	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033 10.333 87.667	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 15. 30. 145. 15. 30. 101.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 17.292 8.631 17.292 8.631 17.292 8.631 17.032 11.553	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** ** *
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39363 39373 39383 39413 39526 46570 70505	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96	49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 43 3 44 ## 11 ## 41 ## 33 ## 3	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033 10.333 87.667 70.062	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 145. 15. 30. 101. 0.2	9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467 0.001	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 17.292 8.631 17.292 83.427 8.631 17.032 11.553 0.038	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39368 39373 39403 39403 39403 39403 39526 46570 70505 70507	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A TATIO(0D 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DBILDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 08/11/71-10/61/5/76 08/11/71-10/21/96	N = 49 ## 49 ## 49 ## 43 3 4 ## 41 ## 1 1 ## 3 3 ## 43 3 3 ## 43 3 ## 43 3 ## 45 66 33 4 ## 56 ##	50. 1.699 12.935 8.81 12.42 1.5 0.005 0.05 0.05 0.05 0.05 0.05 0.05	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 48.667 5.033 10.333 87.667 0.062 0.026	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 145. 15. 30. 101. 0.2 0.17	9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467 0.001 0.001	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 17.292 8.631 17.292 8.3.427 8.631 17.032 11.553 0.038 0.028	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** ** *
31616 31616 32210 32211 32218 32219 34480 39061 39333 39351 39363 39373 39383 39403 39413 39526 46570 70505 70507 71500p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A TATIO(0D 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) PHOSPHATE, TOTAL (UG/L AS HG)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 08/11/71-10/19/94 08/11/71-10/19/94	49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 49 ## 43 3 44 ## 11 ## 41 ## 33 ## 3	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033 7.033 10.033	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 15. 30. 145. 15. 30. 101. 0.2 0.17	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.05	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467 0.001 0.001	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 17.292 8.631 17.292 8.631 17.032 11.553 0.038 0.028 0.13	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39353 39363 39363 39373 39383 39413 39413 39526 46570 70505 70507 71900p 71921	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) MERCURY, TOTAL (UG/L AS HG) MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 06/28/94-10/04/94 08/11/71-10/15/76 08/11/71-10/4/94 07/13/83-10/21/96	49 ## 49 ## 49 ## 3 3 4 4 1 ## 1 1 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 56 ## 7	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033 10.333 87.667 0.062 0.026 0.189 0.186	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 145. 15. 30. 101. 0.2 0.17 1.1	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.5 0.5 0.5 0.05 0.5 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467 0.001 0.001 0.001 0.017 0.006	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292 8.631 17.292 83.427 8.631 17.032 11.553 0.038 0.028 0.13 0.075	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** ** *
31616 31616 32210 32211 32218 32219 34480 39061 39330 39333 39351 39368 39373 39403 39403 39413 39526 46570 70505 70507 71900p 71921 75045	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A TATIO(0D 663)SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) MERCURY, TOTAL (UG/L AS HG) MERCURY, TOTAL ORTHOPHOSPHATE (MG/L AS P) HEPTACHLOR IN BOT. DEPOS. (MG/KG AS HG DRY WGT) HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 08/11/71-10/4/94 08/11/71-10/4/94 07/13/83-10/21/96 08/11/71-10/4/94 07/13/83-10/21/96	49 ## 49 ## 43 3 4 ## ## 1 1 ## ## 3 3 ## ## ## 3 3 ## ## 3 3 ## ##	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.05	50. 1.699 50. 16.148 6.003 14.423 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033 10.333 87.667 0.062 0.026 0.189 0.186 15.	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 145. 15. 30. 101. 0.2 0.17 1.1 0.3 15.	1.699 9.5 0. 0.1 1.19 2.5 0.005 0.5 0.05 0.05 0.05 0.05 0.5 0.05 0.5 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467 0.001 0.001 0.001 0.001 0.006 0.	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 17.292 8.631 17.292 8.631 17.292 8.631 17.032 11.553 0.038 0.028 0.13 0.075 0.	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **
31616 31616 32210 32211 32218 32219 34480 39061 39330 39353 39363 39363 39373 39383 39413 39413 39526 46570 70505 70507 71900p 71921	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. PHEOPHYTIN RATIO(OD 663) SPECTRO, BEFORE/AFTER ACID THALLIUM DRY WGTBOTMG/KG PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG ALDRIN IN WHOLE WATER SAMPLE (UG/L) ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG HARDNESS, CA MG CALCULATED (MG/L AS CACO3) PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) MERCURY, TOTAL (UG/L AS HG) MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/07/71-10/21/96 GEOMETRIC MEAN 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 04/24/90-10/01/90 06/28/94-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 07/11/84-10/21/96 06/28/94-10/04/94 08/11/71-10/15/76 08/11/71-10/4/94 07/13/83-10/21/96	49 ## 49 ## 49 ## 3 3 4 4 1 ## 1 1 ## 3 3 ## 3 3 ## 3 3 ## 3 3 ## 3 56 ## 7	50. 1.699 12.935 8.81 12.42 1.5 2.5 0.005 0.05	50. 1.699 50. 16.148 6.003 14.423 1.453 2.5 23.337 0. 30. 12. 5.033 5.033 10.033 5.033 10.033 48.667 5.033 10.333 87.667 0.062 0.026 0.189 0.186	1.699 29.22 9.2 30.75 1.62 2.5 70. 0. 30. 35. 15. 30. 145. 15. 30. 101. 0.2 0.17 1.1	1.699 9.5 0. 0.1 1.19 2.5 0.005 0. 30. 0.5 0.05 0.05 0.05 0.5 0.5 0.5 0.05 0.5 0.	0. 81.903 27.068 237.866 0.034 0. 1633.1 0. 0. 396.75 74.501 74.501 299.001 74.501 299.001 6960.083 74.501 290.083 133.467 0.001 0.001 0.001 0.017 0.006	0. 9.05 5.203 15.423 0.184 0. 40.412 0. 0. 19.919 8.631 8.631 17.292 8.631 17.292 83.427 8.631 17.032 11.553 0.038 0.028 0.13 0.075	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** **	1.699 ** ** ** ** ** ** ** ** ** ** ** ** *

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-8/01-10/14-			-10/15-4/30-			5/01-7/31			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	13	1	$0.0\bar{8}$	4	1	0.25	6	0	0.00	3	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	23	0	0.00	9	0	0.00	8	0	0.00	6	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	26	9	0.35	9	6	0.67	8	0	0.00	9	3	0.33			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	152	41	0.27	61	27	0.44	30	5	0.17	61	9	0.15			
00400	PH	Other-Hi Lim.	9.	178	38	0.21	71	17	0.24	39	1	0.03	68	20	0.29			
		Other-Lo Lim.	6.5	178	6	0.03	71	2	0.03	39	4	0.10	68	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	121	3	0.02	50	ī	0.02	31	0	0.00	40	2	0.05			
	,	Other-Lo Lim.	6.5	121	2	0.02	50	2	0.04	31	Õ	0.00	40	0	0.00			
00615	NITRITE NITROGEN. TOTAL AS N	Drinking Water	1	147	0	0.00	58	0	0.00	35	Õ	0.00	54	Õ	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	147	ŏ	0.00	58	ŏ	0.00	35	ŏ	0.00	54	ŏ	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	35	ŏ	0.00	12	ŏ	0.00	11	ŏ	0.00	12	ŏ	0.00			
00710	CHEORIDE, TO THE II WITTER	Drinking Water	250.	35	ŏ	0.00	12	ŏ	0.00	11	ŏ	0.00	12	ŏ	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	35	ŏ	0.00	12	ŏ	0.00	11	ő	0.00	12	ŏ	0.00			
00951	FLUORIDE. TOTAL AS F	Drinking Water	4.	8	ő	0.00	2	0	0.00	3	ő	0.00	3	ő	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	79	0	0.00	33	ő	0.00	19	0	0.00	27	ő	0.00			
01002	ARSENIC, TOTAL	Drinking Water	50.	79	0	0.00	33	0	0.00	19	ő	0.00	27	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00	19	U	0.00	21	U	0.00			
01012	DERTELIOM, TOTAL	Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	64 &	1	0.00	26	0	0.00	19	0	0.00	19	1	0.05			
01027	CADMIUM, TOTAL		5.9 5.	64 &	1	0.02	26	0	0.00	19	0	0.00	19	1	0.05			
01024	CHROMIUM. TOTAL	Drinking Water	100.	83	1	0.02	36	0	0.00	19		0.00	28	0	0.03			
01034 01042	COPPER, TOTAL	Drinking Water Fresh Acute	100. 18.	61 &	0	0.00	27	0	0.00	9	0	0.00	28 25	2	0.00			
01042	COPPER, TOTAL				3			1		_	0							
01051	LEAD TOTAL	Drinking Water	1300.	83	0	0.00	36	0	0.00	19	0	0.00	28	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	83	0	0.00	36	0	0.00	19 19	0	0.00	28	0	0.00			
01050	THE LAND A TOTAL	Drinking Water	15.	83	4	0.05	36	1	0.03	19	0	0.00	28	3	0.11			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
01065	MIGNET DIGGOTTED	Drinking Water	2.	1	0	0.00	1	0	0.00				•		0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00	2	0	0.00				2	0	0.00			
	NAME OF THE PARTY	Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	73	0	0.00	30	0	0.00	18	0	0.00	25	0	0.00			
		Drinking Water	100.	73	0	0.00	30	0	0.00	18	0	0.00	25	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	83	2	0.02	36	1	0.03	19	0	0.00	28	1	0.04			
		Drinking Water	5000.	83	0	0.00	36	0	0.00	19	0	0.00	28	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	73	0	0.00	31	0	0.00	19	0	0.00	23	0	0.00			
		Drinking Water	50.	73	0	0.00	31	0	0.00	19	0	0.00	23	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	49	0	0.00	20	0	0.00	7	0	0.00	22	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	84	0	0.00	36	0	0.00	20	0	0.00	28	0	0.00			
		Drinking Water	2.	84	0	0.00	36	0	0.00	20	0	0.00	28	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	3	0	0.00							3	0	0.00			

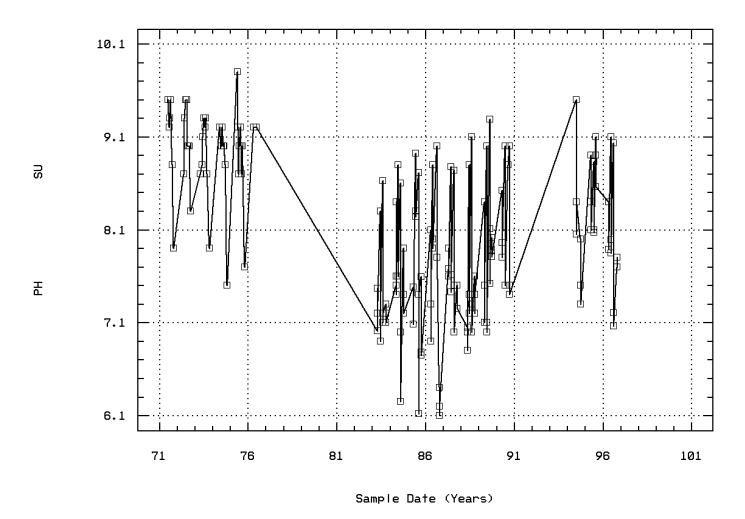
[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BOWA0004 Parameter Code: 00300 OXYGEN, DISSOLVED



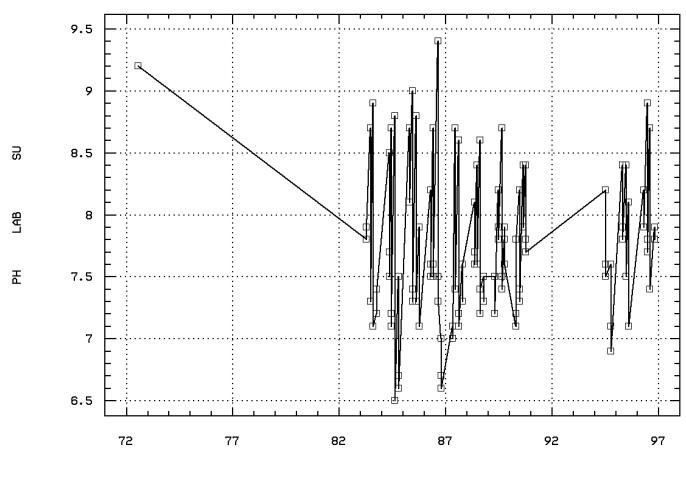
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00400 PH (STANDARD UNITS)



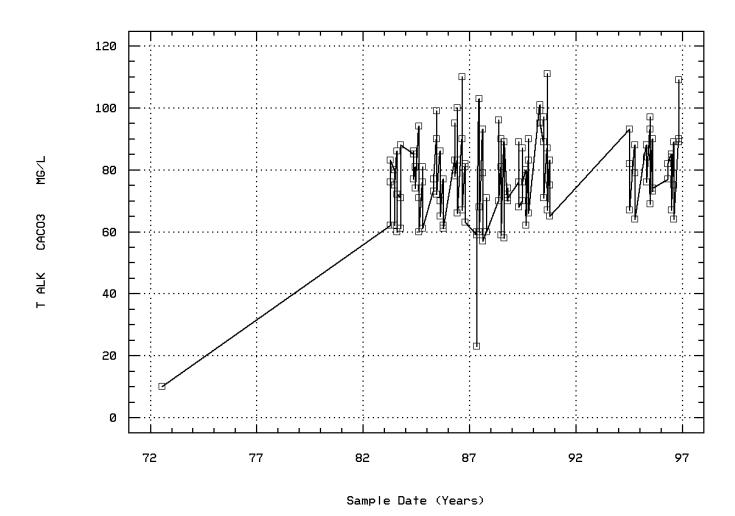
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00403 PH, LAB, STANDARD UNITS



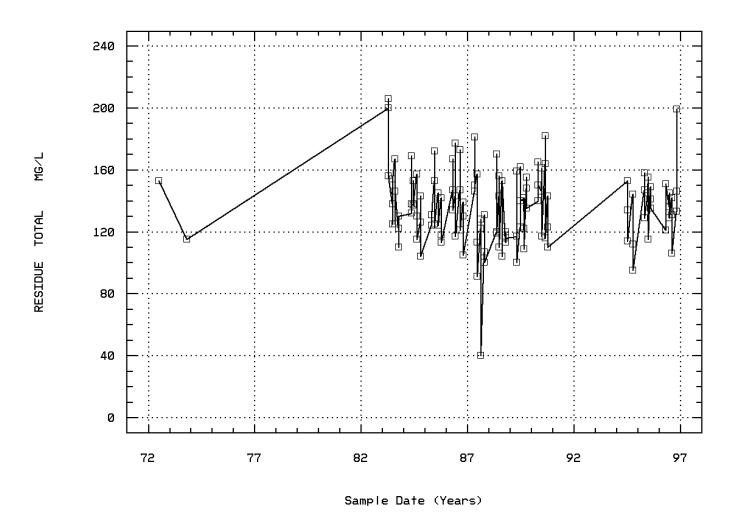
Sample Date (Years)

Station: BOWA0004 Parameter Code: 00410 ALKALINITY, TOTAL (MG/L AS CACO3)



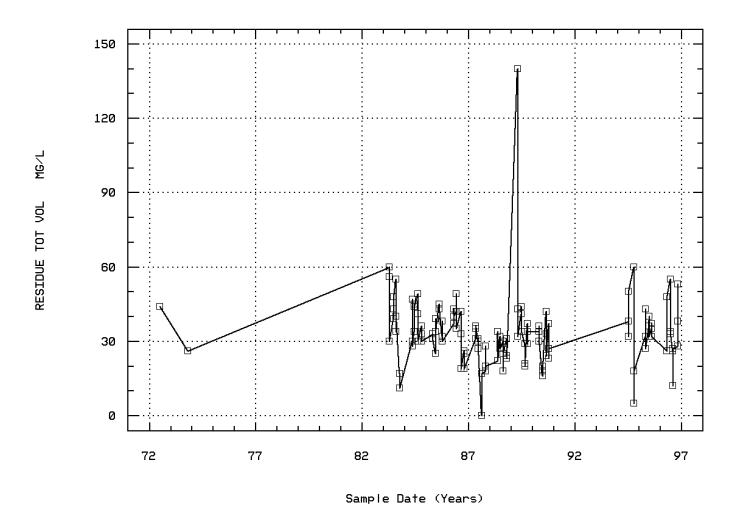
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00500 RESIDUE, TOTAL (MG/L)



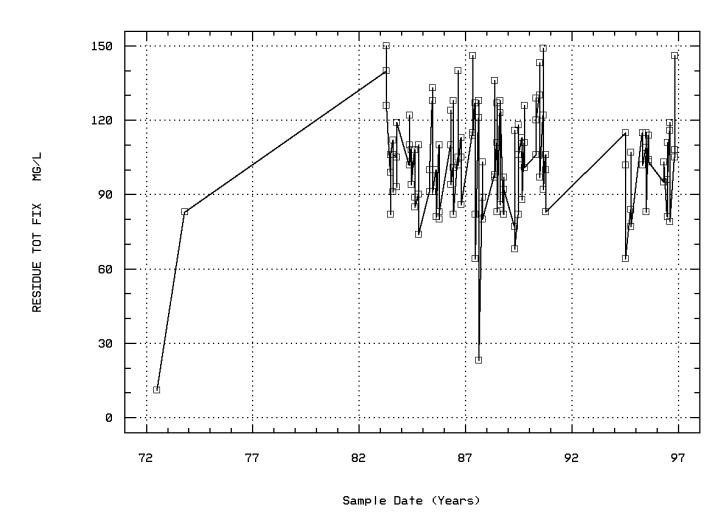
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00505 RESIDUE, TOTAL VOLATILE (MG/L)



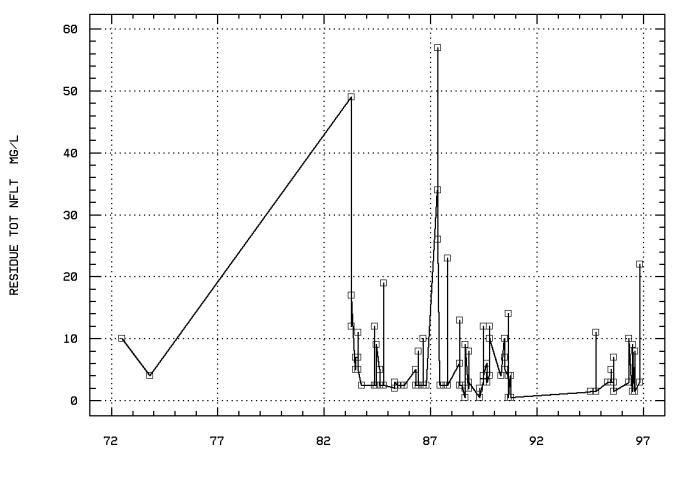
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00510 RESIDUE, TOTAL FIXED (MG/L)



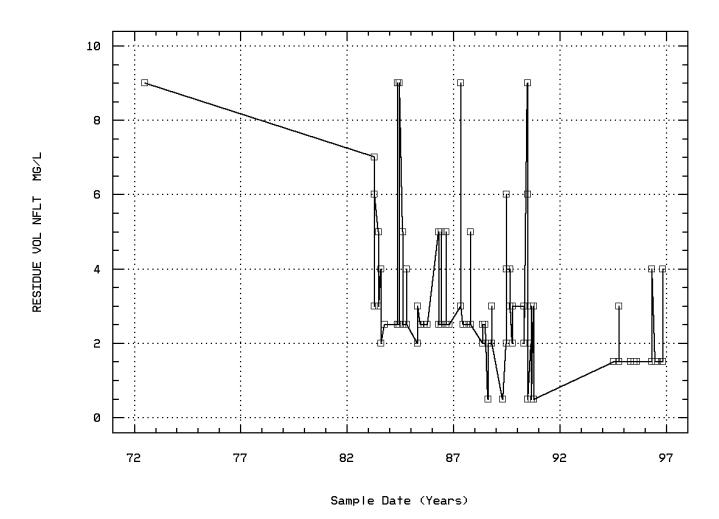
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)



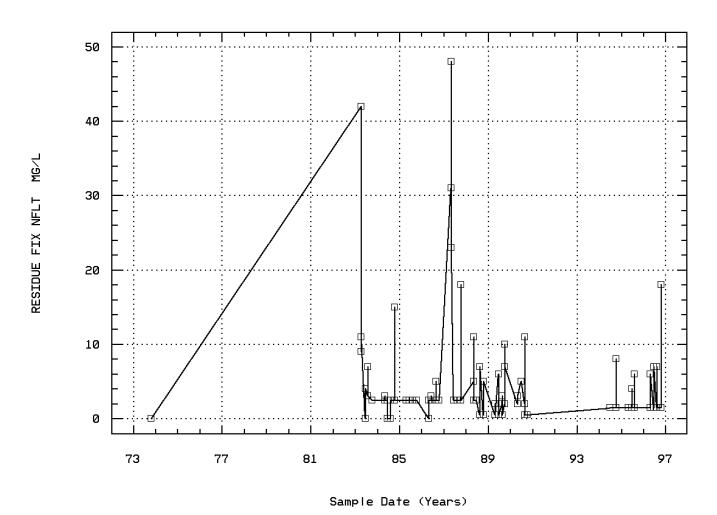
Sample Date (Years)

Station: BOWA0004 Parameter Code: 00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)



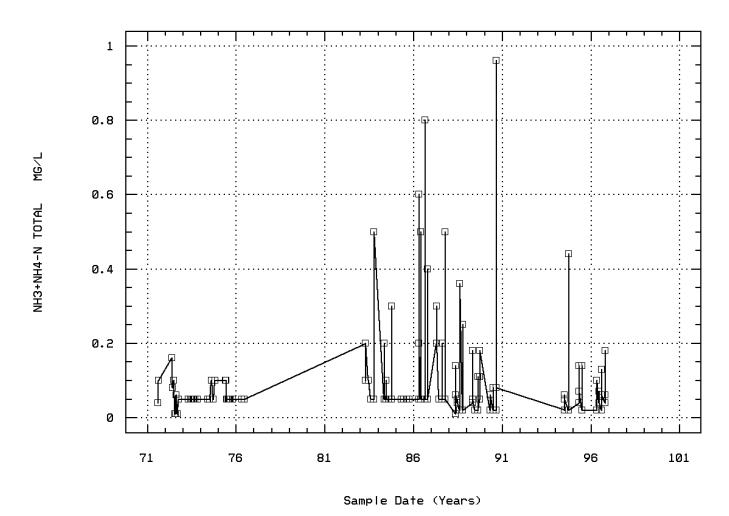
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00540 RESIDUE, FIXED NONFILTRABLE (MG/L)



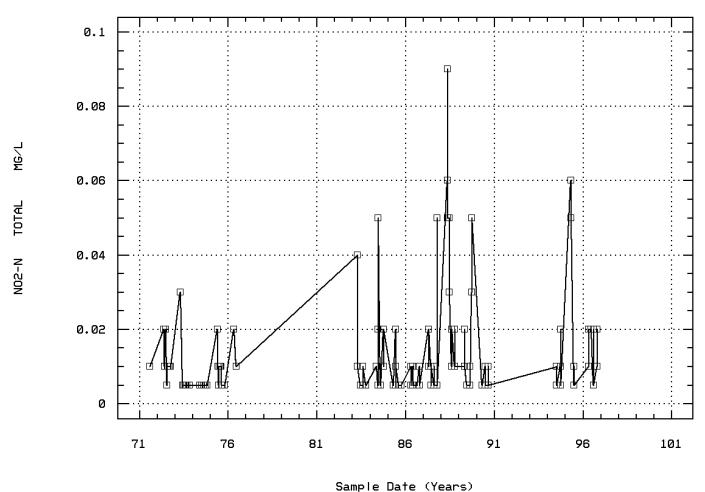
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)

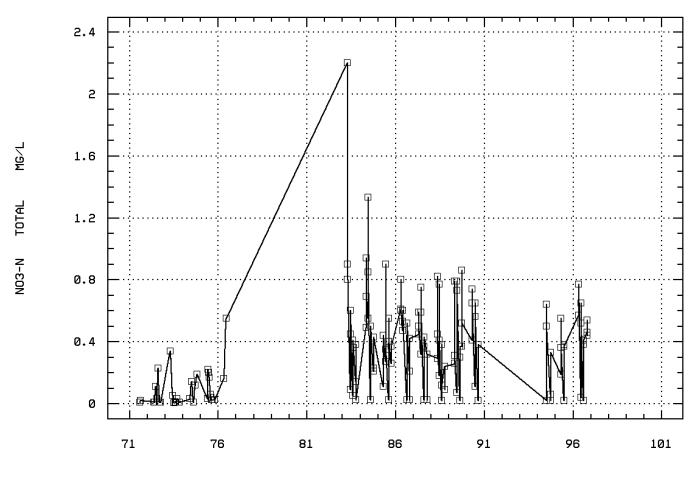


SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)

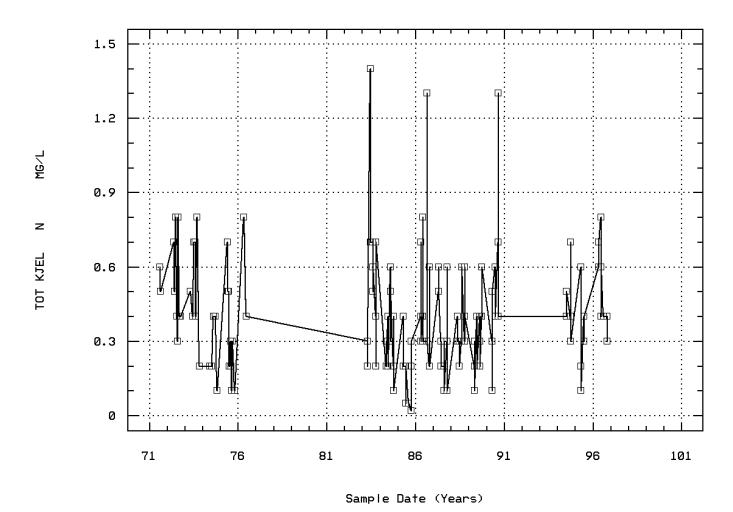


Station: BOWA0004 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)



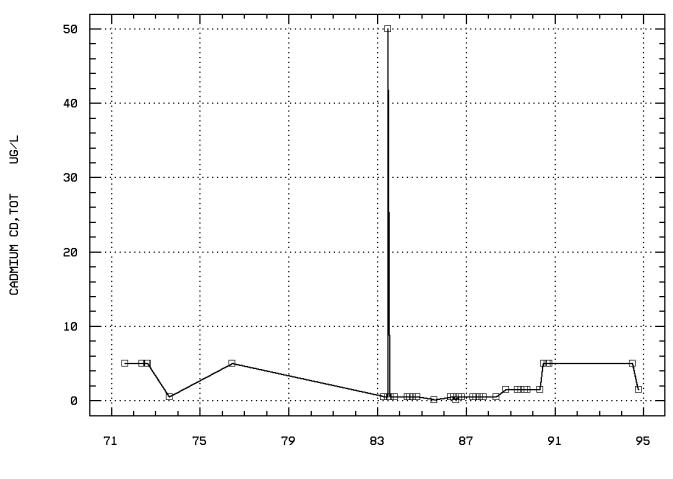
Sample Date (Years)

Station: BOWA0004 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



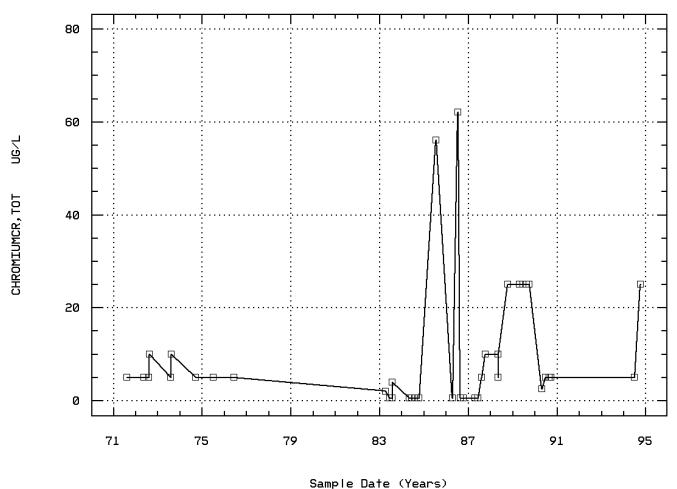
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 01027 CADMIUM, TOTAL (UG/L AS CD)

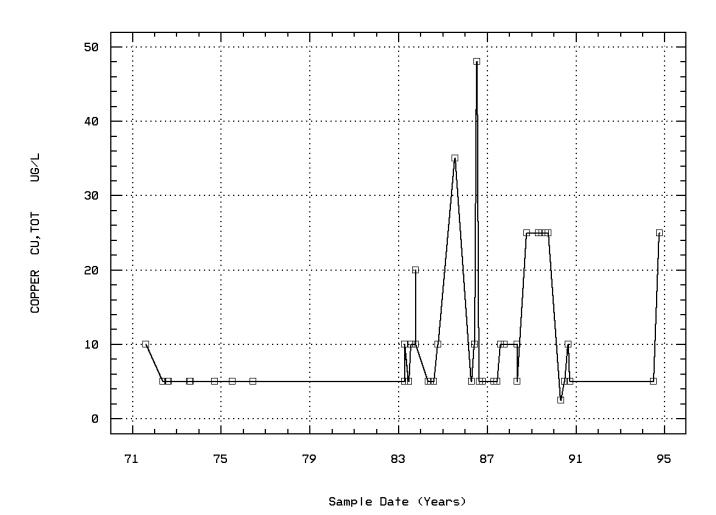


Sample Date (Years)

Station: BOWA0004 Parameter Code: 01034 CHROMIUM, TOTAL (UG/L AS CR)

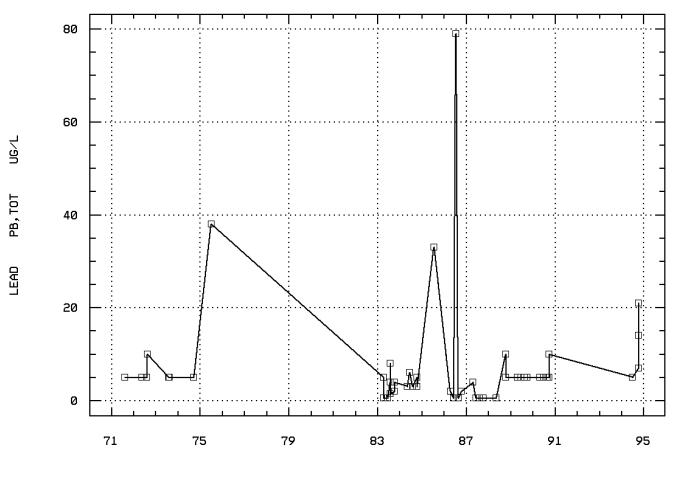


Station: BOWA0004 Parameter Code: 01042 COPPER, TOTAL (UG/L AS CU)



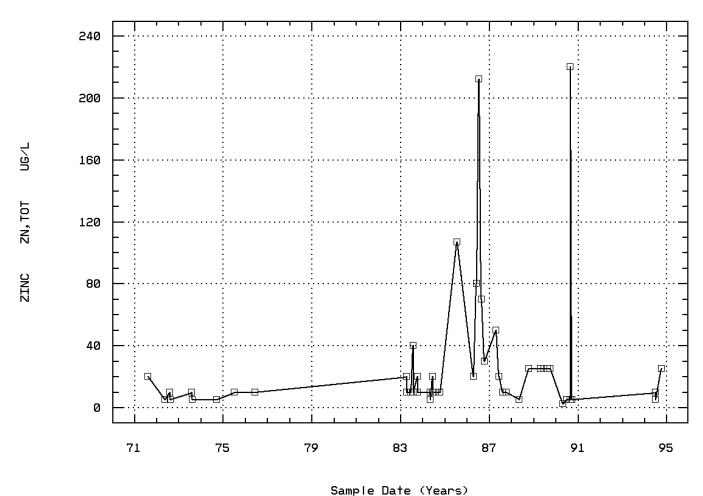
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 01051 LEAD, TOTAL (UG/L AS PB)

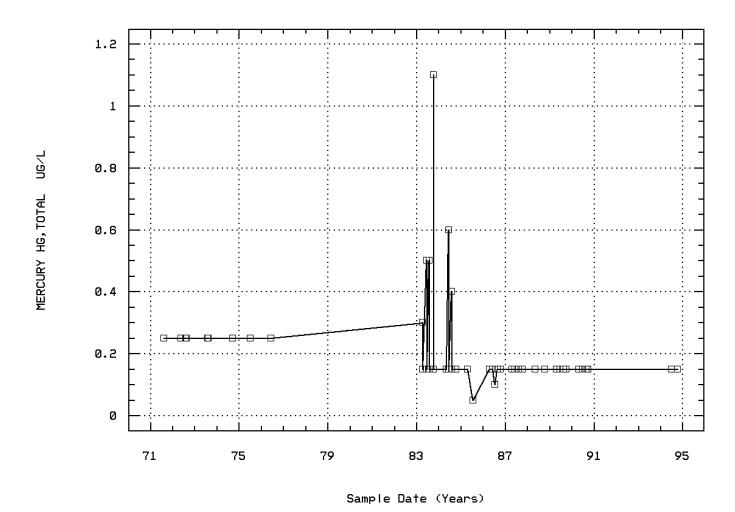


Sample Date (Years)

Station: BOWA0004 Parameter Code: 01092 ZINC, TOTAL (UG/L AS ZN)



Station: BOWA0004 Parameter Code: 71900 MERCURY, TOTAL (UG/L AS HG)



SMITH MTN. LAKE, HALES FORD

Annual Analysis for 1971 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	6	27.2	26.117	27.8	20.6	7.69	2.773	**	**	**	**
00300	OXYGEN, DISSOLVED MĜ/L	07/07/71-10/01/90	6	8.9	8.933	10.4	8.2	0.651	0.807	**	**	**	**
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	6	9.25	9.033	9.5	7.9	0.375	0.612	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	6	9.247	8.576	9.5	7.9	0.626	0.791	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	6	0.001	0.003	0.013	0.	0.	0.005	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	2	0.07	0.07	0.1	0.04	0.002	0.042	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	08/11/71-10/21/96	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	08/11/71-10/21/96	2	0.55	0.55	0.6	0.5	0.005	0.071	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01051	LEAD, TÓTAL (UĞ/L AS PB)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71900	MERĆURY, TÒTAL (UG/L ÁS HG)	08/11/71-10/04/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1972 - Station BOWA0004

D	_	Di. J . CD J	Ol	M. Ji	M	Mi	M:		C44 D	1.041	254	754	004
Paramete 00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	Period of Record 07/07/71-10/21/96	Obs	Median 24.45	Mean 24.3	Maximum 30.	Minimum 19.4	Variance 9.806	Std. Dev. 3.131	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/21/90	0	9.9	10.113	30. 13.2	6.5	4.776	2.185	**	**	**	**
		07/07/71-10/01/90	0	9.9	9.038		8.3	0.166	0.407	**	**	**	**
00400p 00400p	PH (STANDARD UNITS) CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	0	9.	9.038 8.856	9.5 9.5	8.3	0.100	0.451	**	**	**	**
	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	0	9. 0.001	0.001	0.005	0.3	0.203	0.431	**	**	**	**
00400p			0				0.	0.	0.002	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96 07/20/72-10/21/96	1	9.2 9.2	9.2 9.2	9.2 9.2	9.2 9.2	0.	0.	sk sk	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS		1		0.001	0.001	9.2 0.001	0.	0.	sk sk	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	1	0.001				0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	1	153.	153.	153.	153.	0.	0.	**	**	**	**
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	Į.	11.	11.	11.	11.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	1	10.	10.	10.	10.	0.	0.	**			**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	8	0.055	0.06	0.16	0.01	0.003	0.053	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	8	0.01	0.012	0.02	0.005	0.	0.005	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	7	0.01	0.059	0.23	0.01	0.007	0.084	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	08/11/71-10/21/96	8	0.45	0.538	0.8	0.3	0.04	0.2	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	3 ##		5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	3 ##		6.667	10.	5.	8.333	2.887	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	3 ##	· 5.	6.667	10.	5.	8.333	2.887	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	3 ##	5.	6.667	10.	5.	8.333	2.887	**	**	**	**
71900	MERCURY, TOTAL (UG/L ÁS HG)	08/11/71-10/04/94	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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Annual Analysis for 1973 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	8	26.95	24.313	28.3	15.6	26.876	5.184	**	**	**	**
00300	OXYGEN, DISSOLVED MĞ/L	07/07/71-10/01/90	8	9.6	8.875	12.4	0.6	12.856	3.586	**	**	**	**
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	8	8.95	8.875	9.3	7.9	0.219	0.468	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	8	8.925	8.589	9.3	7.9	0.313	0.559	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	8	0.001	0.003	0.013	0.001	0.	0.004	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	1	115.	115.	115.	115.	0.	0.	**	**	**	**
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	1	83.	83.	83.	83.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	7 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	7 ##	0.005	0.009	0.03	0.005	0.	0.009	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	08/11/71-10/21/96	7	0.01	0.065	0.34	0.005	0.015	0.122	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	7	0.5	0.529	0.8	0.2	0.046	0.214	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
71900	MERĆURY, TÒTAL (UG/L ÁS HG)	08/11/71-10/04/94	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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Annual Analysis for 1974 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	8	25.3	24.513	27.8	17.8	9.116	3.019	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	8	8.45	8.262	10.	4.8	2.457	1.567	**	**	**	**
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	8	9.	8.838	9.2	7.5	0.308	0.555	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	8	9.	8.318	9.2	7.5	0.617	0.785	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	8	0.001	0.005	0.032	0.001	0.	0.011	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	5 ##		0.07	0.1	0.05	0.001	0.027	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	5	0.12	0.098	0.19	0.01	0.006	0.076	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	5	0.2	0.26	0.4	0.1	0.018	0.134	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	1 ##	ŧ 5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	1 ##	ŧ 5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (ÙG/L AS ZN)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L ÁS HG)	08/11/71-10/04/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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Annual Analysis for 1975 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	9	26.1	25.244	27.8	17.2	10.75	3.279	17.2	24.4	27.5	27.8
00300	OXYGEN, DISSOLVED MĞ/L	07/07/71-10/01/90	9	9.8	9.8	11.7	8.4	1.662	1.289	8.4	8.55	11.1	11.7
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	9	9.	8.922	9.8	7.7	0.317	0.563	7.7	8.7	9.2	9.8
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	9	9.	8.501	9.8	7.7	0.516	0.718	7.7	8.7	9.2	9.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	9	0.001	0.003	0.02	0.	0.	0.006	0.	0.001	0.002	0.02
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	9 ##	0.05	0.061	0.1	0.05	0.	0.022	0.05	0.05	0.075	0.1
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	9	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02

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Annual Analysis for 1975 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	9	0.04	0.088	0.22	0.025	0.007	0.083	0.025	0.025	0.185	0.22
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	08/11/71-10/21/96	9	0.3	0.322	0.7	0.1	0.042	0.205	0.1	0.15	0.5	0.7
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	1 ##	ŧ 5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L ÁS HG)	08/11/71-10/04/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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Annual Analysis for 1976 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	2	22.2	22.2	24.4	20.	9.68	3.111	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	2	10.7	10.7	11.2	10.2	0.5	0.707	**	**	**	**
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	2	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	2	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	2	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	08/11/71-10/21/96	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	08/11/71-10/21/96	2	0.355	0.355	0.55	0.16	0.076	0.276	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	08/11/71-10/21/96	2	0.6	0.6	0.8	0.4	0.08	0.283	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERĆURY, TÒTAL (UG/L ÁS HG)	08/11/71-10/04/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	12	15.15	15.833	28.	6.9	41.504	6.442	7.47	10.6	19.825	27.1
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	12	6.6	5.775	10.9	0.3	16.331	4.041	0.33	0.925	9.625	10.57
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	12	7.2	7.384	8.63	6.9	0.28	0.529	6.933	7.1	7.428	8.531
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	12	7.2	7.218	8.63	6.9	0.31	0.557	6.933	7.1	7.427	8.531
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	12	0.063	0.061	0.126	0.002	0.001	0.035	0.003	0.038	0.079	0.117
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	11	7.4	7.691	8.9	7.1	0.391	0.625	7.1	7.2	7.9	8.86
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	11	7.4	7.433	8.9	7.1	0.464	0.681	7.1	7.2	7.9	8.86
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	11	0.04	0.037	0.079	0.001	0.001	0.03	0.001	0.013	0.063	0.079
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	73.5	73.	88.	60.	101.455	10.072	60.3	62.	82.25	87.4
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	142.	148.25	206.	110.	921.295	30.353	113.6	125.	164.25	204.2
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	39.5	37.5	60.	11.	265.	16.279	12.8	20.25	53.25	58.8
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	106.	110.75	150.	82.	404.205	20.105	84.7	94.5	124.25	147.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	6.	10.458	49.	2.5	166.748	12.913	2.5	3.125	11.75	39.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	3.5	3.875	7.	2.	2.506	1.583	2.15	2.5	5.	6.7
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	3.	7.208	42.	0.	131.294	11.458	0.	2.5	8.5	32.7
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.1	0.129	0.5	0.05	0.017	0.129	0.05	0.05	0.175	0.41
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12 ##		0.009	0.04	0.005	0.	0.01	0.005	0.005	0.01	0.031
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.395	0.534	2.2	0.025	0.355	0.596	0.033	0.103	0.75	1.81
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	12	0.55	0.558	1.4	0.2	0.11	0.332	0.2	0.3	0.7	1.19
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	12	0.015	0.024	0.08	0.01	0.	0.021	0.01	0.01	0.03	0.068

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Annual Analysis for 1983 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	12	0.015	0.024	0.11	0.005	0.001	0.029	0.005	0.01	0.028	0.089
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	12 ##	0.5	4.625	50.	0.5	204.188	14.289	0.5	0.5	0.5	35.15
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	12	1.	1.125	4.	0.5	1.006	1.003	0.5	0.5	1.	3.4
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	12	10.	8.75	20.	5.	18.75	4.33	5.	5.	10.	17.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	12	260.	621.667	2000.	110.	404906.061	636.322	116.	167.5	1022.5	1880.
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	12 ##	1.25	2.333	8.	0.5	5.833	2.415	0.5	0.5	4.	7.1
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	12	20.	58.333	260.	5.	6387.879	79.924	5.	5.	75.	233.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	12	10.	14.167	30.	5.	90.152	9.495	5.	5.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	12	10.	15.	40.	10.	81.818	9.045	10.	10.	20.	34.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	12 ##	0.15	0.3	1.1	0.15	0.082	0.286	0.15	0.15	0.45	0.92

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Annual Analysis for 1984 - Station BOWA0004

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	21	15.	14.9	28.	6.	47.395	6.884	6.3	9.	18.	28.
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	21	6.2	5.686	13.6	0.	17.588	4.194	0.5	1.3	9.	11.
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	19	7.6	7.703	8.8	6.25	0.434	0.659	7.	7.4	8.4	8.8
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	19	7.6	7.24	8.8	6.25	0.66	0.812	7.	7.4	8.4	8.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	19	0.025	0.058	0.562	0.002	0.016	0.125	0.002	0.004	0.04	0.1
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	12	7.35	7.442	8.8	6.5	0.712	0.844	6.5	6.625	8.3	8.77
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	12	7.325	6.96	8.8	6.5	0.965	0.982	6.5	6.625	8.3	8.77
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	12	0.047	0.11	0.316	0.002	0.016	0.125	0.002	0.007	0.238	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	79.	77.25	94.	60.	97.477	9.873	60.3	71.75	84.	91.6
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	137.5	136.833	169.	104.	316.879	17.801	107.3	127.	150.5	165.4
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	35.	37.25	49.	28.	56.932	7.545	28.6	30.	44.75	48.4
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	102.5	99.583	122.	74.	180.083	13.42	77.3	89.25	109.5	118.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		5.417	19.	2.5	28.083	5.299	2.5	2.5	8.	16.9
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		3.917	9.	2.5	6.265	2.503	2.5	2.5	4.75	9.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		3.167	15.	0.	14.879	3.857	0.	2.5	2.5	11.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	12 ##		0.088	0.3	0.05	0.006	0.08	0.05	0.05	0.088	0.27
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.01	0.014	0.05	0.005	0.	0.013	0.005	0.005	0.02	0.041
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.5	0.562	1.33	0.025	0.126	0.355	0.081	0.28	0.81	1.213
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	12	0.25	0.3	0.6	0.1	0.022	0.148	0.13	0.2	0.4	0.57
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	12 ##		0.012	0.03	0.005	0.	0.009	0.005	0.005	0.02	0.027
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	12 ##		0.007	0.02	0.005	0.	0.005	0.005	0.005	0.009	0.017
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	12 ##	0.5	0.833	3.	0.5	0.652	0.807	0.5	0.5	0.5	2.7
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	12 ##		0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	12 ##		0.708	1.	0.5	0.066	0.257	0.5	0.5	1.	1.
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	12 ##		6.25	10.	5.	5.114	2.261	5.	5.	8.75	10.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	12	270.	354.167	1000.	50.	85226.515	291.936	56.	130.	535.	928.
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	12 ##		2.25	6.	1.	3.114	1.765	1.	1.	3.	5.7
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	12	25.	61.667	220.	5.	5787.879	76.078	5.	5.	107.5	211.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	12	50.	43.333	80.	10.	606.061	24.618	13.	20.	60.	80.
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	12	10.	10.417	20.	5.	11.174	3.343	6.5	10.	10.	17.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	12 ##		0.583	1.	0.5	0.038	0.195	0.5	0.5	0.5	1.
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	12 ##	0.15	0.208	0.6	0.15	0.02	0.143	0.15	0.15	0.15	0.54

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Annual Analysis for 1985 - Station BOWA0004

Paramete	T .	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	11	14.2	15.955	28.5	8.2	48.217	6.944	8.26	9.8	21.3	27.96
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	11	6.7	5.136	10.2	0.	16.439	4.054	0.04	0.6	8.5	10.16
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	12	7.48	7.571	8.92	6.12	0.708	0.841	6.309	6.855	8.285	8.857
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	12	7.48	6.955	8.92	6.12	1.122	1.059	6.309	6.855	8.285	8.857
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	12	0.033	0.111	0.759	0.001	0.045	0.213	0.001	0.005	0.145	0.584
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	11	7.4	7.818	9.	7.1	0.524	0.724	7.1	7.3	8.7	8.96
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	11	7.4	7.468	9.	7.1	0.658	0.811	7.1	7.3	8.7	8.96
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	11	0.04	0.034	0.079	0.001	0.001	0.03	0.001	0.002	0.05	0.079
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	11	73.	75.636	99.	61.	142.855	11.952	61.2	65.	86.	97.2
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	10	128.	134.7	172.	113.	330.233	18.172	113.5	122.5	147.	170.1
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	10	33.5	35.	45.	25.	38.222	6.182	25.5	30.75	40.	44.8
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	10	95.5	99.7	133.	80.	353.789	18.809	80.1	82.5	114.5	132.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	11#		2.5	3.	2.	0.05	0.224	2.1	2.5	2.5	2.9
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	11#		2.5	3.	2.	0.05	0.224	2.1	2.5	2.5	2.9
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	11#		2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	11#		0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	11#			0.02	0.005	0.	0.005	0.005	0.005	0.005	0.018
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	11	0.37	0.368	0.9	0.025	0.053	0.23	0.042	0.26	0.44	0.83
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	11	0.2	0.156	0.4	0.02	0.015	0.123	0.026	0.05	0.2	0.38
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	11	0.01	0.015	0.03	0.005	0.	0.008	0.005	0.01	0.02	0.028
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	11#		0.051	0.5	0.005	0.022	0.149	0.005	0.005	0.01	0.402
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	1 #		0.1	0.1	0.1	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	1	26780.	26780.	26780.	26780.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	1	370.8	370.8	370.8	370.8	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	1	107.	107.	107.	107.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	2#	# 0.1	0.1	0.15	0.05	0.005	0.071	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	14	14.75	13.6	25.5	4.9	33.369	5.777	5.	9.275	17.125	22.7
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	15	1.4	4.367	12.	0.	19.228	4.385	0.	0.5	7.8	11.04
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	15	7.8	7.48	9.	6.1	0.863	0.929	6.16	6.4	8.	8.88
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	15	7.8	6.741	9.	6.1	1.448	1.203	6.16	6.4	8.	8.88
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	15	0.016	0.182	0.794	0.001	0.079	0.282	0.001	0.01	0.398	0.696
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	12	7.5	7.633	9.4	6.6	0.644	0.803	6.63	7.075	8.05	9.19
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	12	7.5	7.201	9.4	6.6	0.848	0.921	6.63	7.075	8.05	9.19
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	12	0.032	0.063	0.251	0.	0.007	0.081	0.001	0.011	0.088	0.236
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	82.5	83.167	110.	63.	198.697	14.096	63.9	69.75	93.75	107.
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	141.	141.667	177.	105.	501.152	22.386	108.6	123.25	162.	175.8
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	36.	34.167	49.	19.	97.788	9.889	19.	25.25	42.	47.2
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	105.	107.5	140.	82.	287.727	16.963	83.2	95.75	121.25	136.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		4.	10.	2.5	6.545	2.558	2.5	2.5	5.	9.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		3.333	5.	2.5	1.515	1.231	2.5	2.5	5.	5.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	11 ##		2.545	5.	0.	1.273	1.128	0.5	2.5	2.5	4.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	12 ##		0.238	0.8	0.05	0.072	0.268	0.05	0.05	0.475	0.74
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12 ##		0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.495	0.403	0.8	0.025	0.071	0.266	0.025	0.071	0.6	0.743
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	08/11/71-10/21/96	12	0.35	0.483	1.3	0.2	0.103	0.321	0.2	0.3	0.675	1.15
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	12	0.01	0.02	0.1	0.005	0.001	0.026	0.005	0.01	0.02	0.076

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Annual Analysis for 1986 - Station BOWA0004

Paramete	r	Period of Record	Obs 1	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	12 ##	0.005	0.015	0.1	0.005	0.001	0.027	0.005	0.005	0.01	0.076
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	5 ##	0.5	5.6	26.	0.5	130.05	11.404	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	5 ##	0.5	0.42	0.5	0.1	0.032	0.179	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	5 ##	0.5	12.9	62.	0.5	753.425	27.449	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	5 ##	5.	14.6	48.	5.	353.3	18.796	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	4 ##	75.	100.	200.	50.	5000.	70.711	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	5	2.	16.8	79.	0.5	1209.575	34.779	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	4 ##	12.5	15.	30.	5.	150.	12.247	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	5 ##	50.	46.4	50.	32.	64.8	8.05	**	**	**	**
01092	ZINC, TOTAL (UĞ/L AS ZN)	08/11/71-10/04/94	5	70.	82.4	212.	20.	5898.8	76.804	**	**	**	**
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	04/13/83-10/04/94	4 ##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	5 ##	0.15	0.14	0.15	0.1	0.	0.022	**	**	**	**

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Annual Analysis for 1987 - Station BOWA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	16	14.85	15.3	30.2	6.8	39.431	6.279	7.64	11.	17.15	27.4
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	16	6.45	5.788	11.1	0.	12.007	3.465	0.	2.575	8.4	10.61
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	16	7.55	7.606	8.78	7.	0.262	0.511	7.	7.25	7.663	8.752
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	16	7.547	7.422	8.78	7.	0.298	0.546	7.	7.25	7.662	8.752
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	16	0.028	0.038	0.1	0.002	0.001	0.029	0.002	0.022	0.056	0.1
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	12	7.35	7.508	8.7	7.	0.323	0.568	7.03	7.1	7.6	8.67
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	12	7.347	7.311	8.7	7.	0.365	0.604	7.03	7.1	7.6	8.67
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	12	0.045	0.049	0.1	0.002	0.001	0.032	0.002	0.025	0.079	0.094
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	60.	66.083	103.	23.	401.72	20.043	33.2	59.25	77.	100.
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	125.	122.167	181.	40.	1332.515	36.504	55.3	101.75	149.	173.8
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	27.5	22.833	36.	0.	146.697	12.112	0.3	17.25	31.	35.7
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	108.5	99.333	146.	23.	1142.242	33.797	35.3	80.5	125.5	140.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##	2.5	13.333	57.	2.5	320.606	17.905	2.5	2.5	25.25	50.1
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		3.333	9.	2.5	3.697	1.923	2.5	2.5	3.	7.8
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##	2.5	11.667	48.	2.5	230.424	15.18	2.5	2.5	21.75	42.9
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	12 ##		0.146	0.5	0.05	0.02	0.142	0.05	0.05	0.2	0.44
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.01	0.013	0.05	0.005	0.	0.013	0.005	0.005	0.018	0.041
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.4	0.391	0.75	0.025	0.046	0.215	0.025	0.32	0.568	0.702
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	12	0.3	0.333	0.6	0.1	0.032	0.178	0.1	0.2	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	12	0.1	0.11	0.2	0.02	0.004	0.062	0.02	0.085	0.175	0.2
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	12	0.035	0.037	0.08	0.005	0.001	0.028	0.005	0.01	0.065	0.08
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	4 ##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	4 ##	2.75	4.	10.	0.5	20.5	4.528	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	4 ##	7.5	7.5	10.	5.	8.333	2.887	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	4	125.	552.5	1900.	60.	807958.333	898.865	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	4 ##	0.5	1.375	4.	0.5	3.063	1.75	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	5	20.	172.2	781.	10.	115974.2	340.55	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	4 ##		16.25	50.	5.	506.25	22.5	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	4	15.	22.5	50.	10.	358.333	18.93	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	4 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BOWA0004

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	14	16.	15.171	30.6	7.2	52.502	7.246	7.2	8.1	17.675	29.15
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	6	207.5	214.333	255.	171.	904.667	30.078	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	14	6.25	6.371	10.6	0.2	11.935	3.455	0.75	4.35	9.125	10.6
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	15	7.2	7.38	9.1	6.8	0.459	0.677	6.8	7.	7.4	8.92
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	15	7.2	7.143	9.1	6.8	0.519	0.72	6.8	7.	7.4	8.92
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	15	0.063	0.072	0.158	0.001	0.002	0.048	0.001	0.04	0.1	0.158
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	12	7.6	7.708	8.6	7.2	0.188	0.434	7.23	7.425	8.	8.54
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	12	7.6	7.566	8.6	7.2	0.21	0.459	7.23	7.425	8.	8.54
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	12	0.025	0.027	0.063	0.003	0.	0.018	0.003	0.011	0.038	0.059
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	72.5	76.417	96.	58.	155.174	12.457	58.3	70.	89.	94.2
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	120.	131.417	170.	104.	487.356	22.076	105.8	113.75	153.	165.8
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	26.	26.417	34.	18.	23.538	4.852	19.2	22.25	30.75	33.4
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	97.5	105.	136.	82.	368.545	19.198	82.3	87.5	126.	133.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	2.5	4.458	13.	0.5	13.975	3.738	0.95	2.125	7.5	11.8
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	2.	2.042	3.	0.5	0.475	0.689	0.65	2.	2.5	2.85
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	12 ##		3.375	11.	0.5	10.006	3.163	0.5	0.625	5.	9.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.04	0.086	0.36	0.01	0.012	0.11	0.013	0.02	0.12	0.327
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.025	0.033	0.09	0.01	0.001	0.025	0.01	0.01	0.05	0.081
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.265	0.334	0.82	0.02	0.063	0.251	0.041	0.135	0.44	0.805
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	08/11/71-10/21/96	12	0.3	0.358	0.6	0.2	0.017	0.131	0.2	0.3	0.4	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	12	0.02	0.034	0.1	0.005	0.001	0.033	0.007	0.01	0.045	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	12 ##		0.009	0.02	0.005	0.	0.006	0.005	0.005	0.01	0.02
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	10 ##		1.95	2.5	0.5	0.803	0.896	0.5	0.875	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	10 ##		1.2	1.5	0.5	0.233	0.483	0.5	0.5	1.5	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	10 ##		20.	25.	5.	66.667	8.165	5.5	10.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	10 ##		20.	25.	5.	66.667	8.165	5.5	10.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	9	80.	283.333	650.	40.	80175.	283.152	40.	50.	640.	650.
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	10 ##		4.75	10.	0.5	11.292	3.36	0.55	1.	6.25	10.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	10 ##		66.5	210.	10.	6144.722	78.388	10.	21.25	132.5	209.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	10 ##		19.	25.	5.	93.333	9.661	5.	5.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	10 ##		19.	25.	5.	93.333	9.661	5.	5.	25.	25
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	11 ##		2.091	4.	0.5	1.241	1.114	0.5	0.5	2.5	3.7
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	10 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

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Annual Analysis for 1989 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	12	16.8	16.558	28.	7.3	41.024	6.405	7.84	10.4	20.175	27.43
00094	SPECIFIC CONDUCTANCÈ, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	13	212.	211.231	267.	162.	895.359	29.923	168.8	193.5	223.	266.2
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	12	6.2	6.017	11.	0.2	14.351	3.788	0.53	2.75	10.15	10.97
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	12	7.845	7.893	9.29	7.	0.532	0.729	7.03	7.2	8.328	9.203
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	12	7.844	7.508	9.29	7.	0.694	0.833	7.03	7.2	8.328	9.203
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	12	0.014	0.031	0.1	0.001	0.001	0.035	0.001	0.005	0.067	0.094
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	12	7.7	7.725	8.7	7.2	0.184	0.429	7.2	7.425	7.9	8.55
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	12	7.689	7.575	8.7	7.2	0.209	0.457	7.2	7.425	7.9	8.55
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	12	0.02	0.027	0.063	0.002	0.	0.02	0.003	0.013	0.038	0.063
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	76.	76.417	90.	62.	89.174	9.443	63.2	68.5	86.	89.7
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	137.5	134.333	162.	100.	407.333	20.183	102.7	118.25	153.25	161.1
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	34.	42.	140.	20.	1011.455	31.803	20.3	29.	42.5	111.2
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	104.	100.667	126.	68.	327.515	18.097	70.7	83.5	115.25	123.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	4.	5.25	12.	0.5	16.705	4.087	0.5	2.25	9.	12.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	2.5	2.542	6.	0.5	2.748	1.658	0.5	0.875	3.75	5.4
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	2.	2.917	10.	0.5	9.629	3.103	0.5	0.5	5.25	9.1
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.045	0.068	0.18	0.02	0.004	0.061	0.02	0.02	0.11	0.18
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.01	0.015	0.05	0.005	0.	0.014	0.005	0.005	0.028	0.044

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	12	0.37	0.449	0.86	0.02	0.082	0.286	0.035	0.27	0.775	0.839
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	08/11/71-10/21/96	12	0.3	0.308	0.6	0.1	0.019	0.138	0.13	0.2	0.4	0.54
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	12	0.02	0.024	0.06	0.01	0.	0.018	0.01	0.01	0.028	0.06
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	3	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	12 ##	1.5	1.5	1.5	1.5	0.	0.	1.5	1.5	1.5	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	12 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	12 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	9	170.	172.222	420.	25.	18938.194	137.616	25.	37.5	290.	420.
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01055	MANĜANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	12 ##	25.	49.583	170.	25.	2729.356	52.243	25.	25.	43.75	164.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	11 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	12 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	04/13/83-10/04/94	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	12 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	12	17.9	17.558	28.1	8.5	35.655	5.971	9.31	11.875	21.025	27.68
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	11	204.	202.636	241.	150.	1064.455	32.626	152.	165.	234.	240.8
00300	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	10	6.5	6.7	12.1	0.1	22.051	4.696	0.17	2.	11.2	12.1
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	10	7.88	8.098	9.	7.4	0.441	0.664	7.41	7.5	8.85	9.
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	10	7.873	7.774	9.	7.4	0.557	0.746	7.41	7.5	8.85	9.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	10	0.013	0.017	0.04	0.001	0.	0.015	0.001	0.001	0.032	0.039
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	12	7.8	7.783	8.4	7.1	0.211	0.459	7.13	7.325	8.2	8.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	12	7.8	7.578	8.4	7.1	0.257	0.507	7.13	7.325	8.2	8.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	12	0.016	0.026	0.079	0.004	0.001	0.026	0.004	0.006	0.048	0.075
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	12	88.	86.667	111.	65.	216.606	14.718	65.6	72.	98.5	108.
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	12	144.5	143.083	182.	110.	520.992	22.825	111.8	118.5	163.25	176.9
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	12	28.5	28.333	42.	16.	68.606	8.283	16.6	20.75	35.5	40.5
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	12	113.	114.75	149.	83.	427.114	20.667	85.7	97.75	129.75	147.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	4.	4.833	14.	0.5	15.561	3.945	0.5	1.75	6.5	12.8
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	12	2.	2.625	9.	0.5	6.551	2.56	0.5	0.625	3.	8.1
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	11	1.	2.5	11.	0.5	9.8	3.13	0.5	0.5	3.	9.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	9 ##	# 0.02	0.142	0.96	0.02	0.095	0.308	0.02	0.02	0.08	0.96
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	9 ##		0.006	0.01	0.005	0.	0.002	0.005	0.005	0.008	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	9	0.41	0.393	0.74	0.02	0.08	0.283	0.02	0.065	0.65	0.74
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	08/11/71-10/21/96	9	0.4	0.522	1.3	0.1	0.114	0.338	0.1	0.35	0.65	1.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	9	0.02	0.033	0.1	0.01	0.001	0.027	0.01	0.02	0.04	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	3	0.02	0.018	0.03	0.005	0.	0.013	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	12 ##		4.125	5.	1.5	2.506	1.583	1.5	2.375	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	12 ##		5.625	10.	2.5	8.097	2.845	2.5	3.125	8.75	10.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	12	55.	320.833	2750.	25.	606494.697	778.778	25.	30.	125.	2090.
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	12 ##		5.417	10.	5.	2.083	1.443	5.	5.	5.	8.5
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	11##		93.636	540.	5.	26350.455	162.328	5.	5.	160.	472.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	12 ##		22.292	220.	2.5	3877.794	62.272	2.5	3.125	5.	155.5
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	12 ##	¢ 0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	6	17.6	18.2	26.9	11.4	30.052	5.482	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	5	140.	133.	150.	90.	620.	24.9	**	**	**	**
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	6	8.025	8.125	9.5	7.3	0.612	0.782	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	6	8.024	7.757	9.5	7.3	0.774	0.88	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	6	0.009	0.017	0.05	0.	0.	0.019	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	6	7.55	7.483	8.2	6.9	0.206	0.454	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	6	7.547	7.311	8.2	6.9	0.241	0.491	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	6	0.028	0.049	0.126	0.006	0.002	0.045	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	6	80.5	78.833	93.	64.	130.967	11.444	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	6	124.	125.333	153.	95.	483.067	21.979	**	**	**	**
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	6	35.	33.833	60.	5.	409.767	20.243	**	**	**	**
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	6	93.	91.5	115.	64.	385.1	19.624	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	6 ##	[‡] 1.5	3.083	11.	1.5	15.042	3.878	**	**	**	**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	6 ##	[‡] 1.5	1.75	3.	1.5	0.375	0.612	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	6 ##	[‡] 1.5	2.583	8.	1.5	7.042	2.654	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	6 ##	# 0.035	0.102	0.44	0.02	0.028	0.167	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	08/11/71-10/21/96	6 ##	# 0.008	0.009	0.02	0.005	0.	0.006	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	6	0.195	0.262	0.64	0.02	0.072	0.269	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	6	0.4	0.45	0.7	0.3	0.019	0.138	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	6	0.025	0.025	0.05	0.005	0.	0.018	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	6 ##		5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	6 ##	[‡] 3.25	3.25	5.	1.5	3.675	1.917	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	6 ##	<i>‡</i> 15.	15.	25.	5.	120.	10.954	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	6 ##		15.	25.	5.	120.	10.954	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	6	92.5	264.667	1230.	31.	224759.467	474.088	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	6 ##	<i>‡</i> 6.	9.5	21.	5.	43.9	6.626	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	6 ##	[‡] 25.	71.233	263.	5.	9963.987	99.82	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	6 ##		15.	25.	5.	120.	10.954	**	**	**	**
01092	ZINC, TOTAL (UĜ/L AS ZN)	08/11/71-10/04/94	6 ##		15.833	25.	5.	104.167	10.206	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	6 ##	<i>†</i> 10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	6 ##	# 0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	9	14.2	15.622	28.7	7.	57.059	7.554	7.	9.35	21.65	28.7
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	9	165.	180.	260.	90.	2631.25	51.296	90.	152.5	220.	260.
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	9	8.56	8.551	9.1	8.07	0.16	0.401	8.07	8.1	8.9	9.1
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	9	8.56	8.399	9.1	8.07	0.187	0.432	8.07	8.1	8.9	9.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	9	0.003	0.004	0.009	0.001	0.	0.003	0.001	0.001	0.008	0.009
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	9	7.8	7.756	8.4	7.1	0.245	0.495	7.1	7.3	8.25	8.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	9	7.8	7.529	8.4	7.1	0.303	0.551	7.1	7.3	8.25	8.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	9	0.016	0.03	0.079	0.004	0.001	0.03	0.004	0.006	0.056	0.079
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	9	84.	82.667	97.	69.	99.5	9.975	69.	73.5	91.5	97.
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	9	145.	141.556	158.	115.	181.778	13.482	115.	132.	152.	158.
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	9	35.	34.889	43.	27.	23.111	4.807	27.	32.	38.5	43.
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	9	109.	106.667	115.	83.	108.75	10.428	83.	102.5	115.	115.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	9	3.	3.5	7.	1.5	2.5	1.581	1.5	3.	4.	7.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	9 ##	1.5	1.5	1.5	1.5	0.	0.	1.5	1.5	1.5	1.5
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	9 ##		2.278	6.	1.5	2.632	1.622	1.5	1.5	2.75	6.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	6	0.055	0.072	0.14	0.02	0.003	0.056	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	6	0.03	0.03	0.06	0.005	0.001	0.026	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	6	0.365	0.312	0.55	0.02	0.033	0.183	**	**	**	**
00625p	NITROGEN, KJELDAĤL, TOTAĽ, (MG/L AŚ N)	08/11/71-10/21/96	6	0.35	0.333	0.6	0.1	0.031	0.175	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	6	0.025	0.028	0.06	0.01	0.	0.019	**	**	**	**

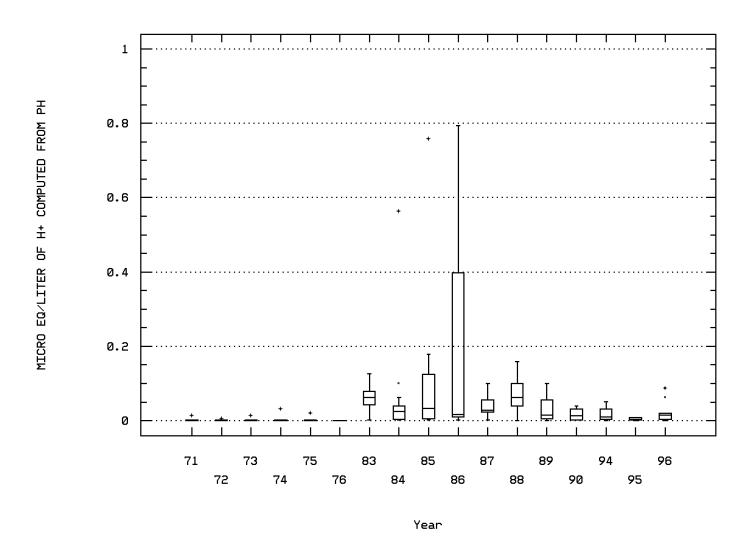
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0004

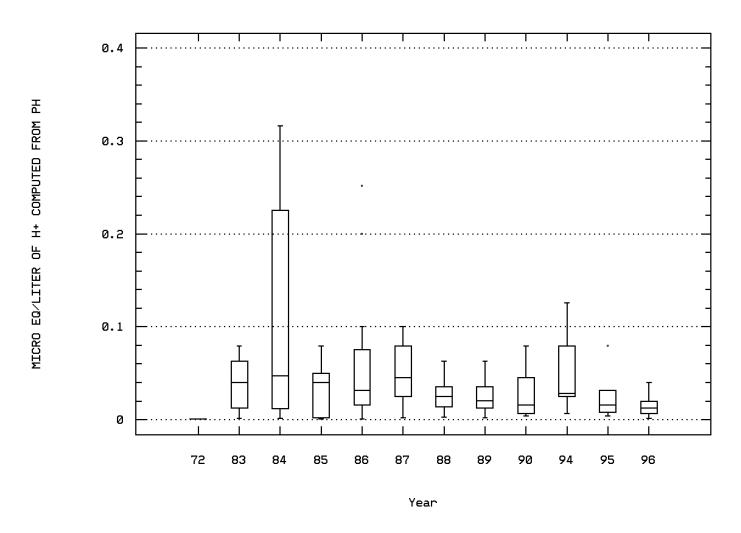
Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	11	16.8	17.491	28.4	10.6	35.599	5.966	10.74	13.	19.2	28.36
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	11	190.	174.909	265.	70.	3035.491	55.095	78.	140.	220.	257.
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	11	7.85	7.975	9.1	7.06	0.419	0.647	7.09	7.7	8.4	9.086
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	11	7.85	7.648	9.1	7.06	0.537	0.733	7.09	7.7	8.4	9.086
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	11	0.014	0.022	0.087	0.001	0.001	0.027	0.001	0.004	0.02	0.082
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	11	7.9	7.964	8.9	7.4	0.225	0.474	7.4	7.7	8.2	8.86
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	11	7.9	7.79	8.9	7.4	0.258	0.508	7.4	7.7	8.2	8.86
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	11	0.013	0.016	0.04	0.001	0.	0.013	0.001	0.006	0.02	0.04
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	11	84.	82.818	109.	64.	151.964	12.327	64.6	75.	89.	105.2
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	11	136.	139.909	199.	106.	545.091	23.347	109.	129.	146.	189.4
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	11	33.	34.545	55.	12.	170.873	13.072	14.8	26.	48.	54.6
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	11	105.	105.364	146.	79.	347.855	18.651	79.4	95.	116.	140.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	11	3.	5.818	22.	1.5	39.264	6.266	1.5	1.5	9.	19.6
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	11 ##	1.5	1.955	4.	1.5	1.023	1.011	1.5	1.5	1.5	4.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	11 ##	1.5	4.409	18.	1.5	25.991	5.098	1.5	1.5	7.	15.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	11	0.06	0.069	0.18	0.02	0.002	0.049	0.02	0.04	0.1	0.17
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	11	0.02	0.015	0.02	0.005	0.	0.007	0.005	0.01	0.02	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	11	0.46	0.436	0.77	0.02	0.053	0.23	0.024	0.38	0.57	0.746
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	11	0.4	0.491	0.8	0.3	0.025	0.158	0.32	0.4	0.6	0.78
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	11	0.03	0.035	0.05	0.03	0.	0.008	0.03	0.03	0.04	0.05

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

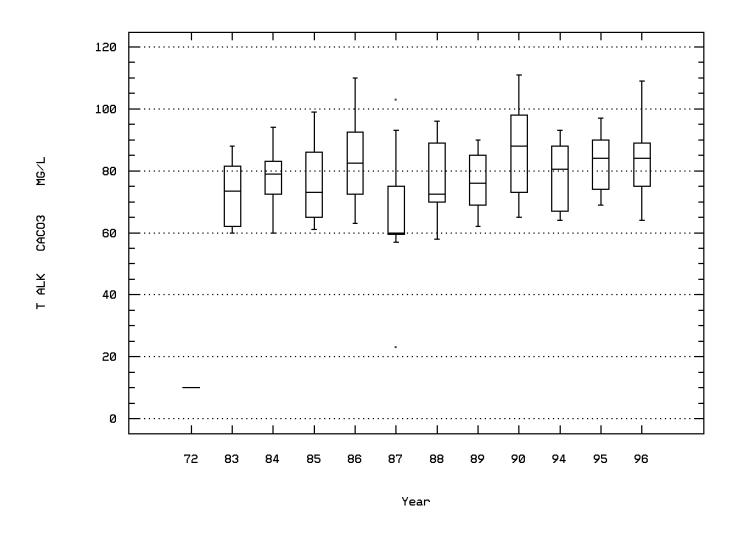
Station: BOWA0004 Parameter Code: 00400 MICRO EQ/LITER OF H+ COMPUTED FROM PH



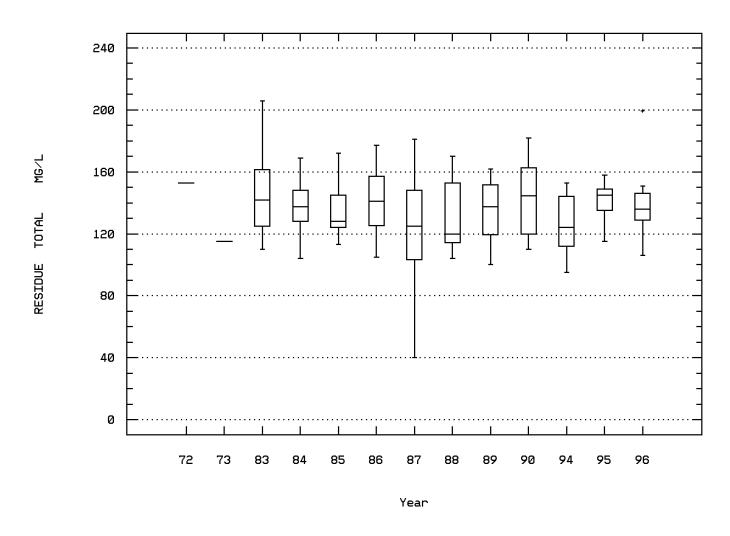
Station: BOWA0004 Parameter Code: 00403 MICRO EQ/LITER OF H+ COMPUTED FROM PH



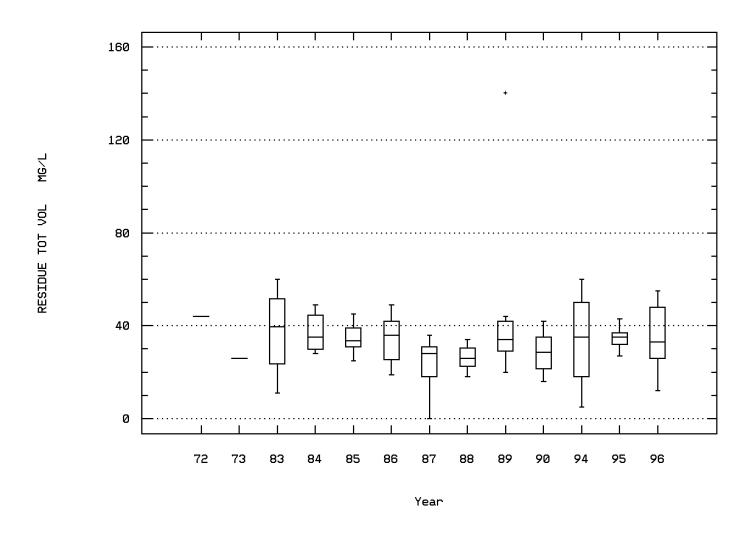
Station: BOWA0004 Parameter Code: 00410 ALKALINITY, TOTAL (MG/L AS CACO3)



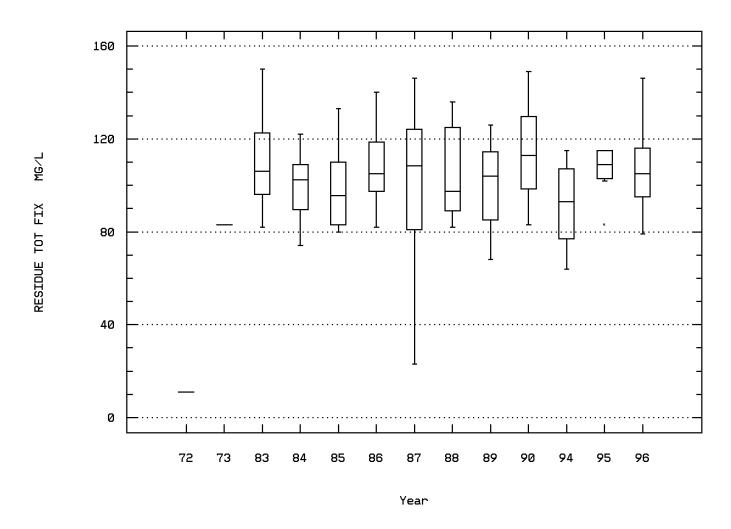
Station: BOWA0004 Parameter Code: 00500 RESIDUE, TOTAL (MG/L)



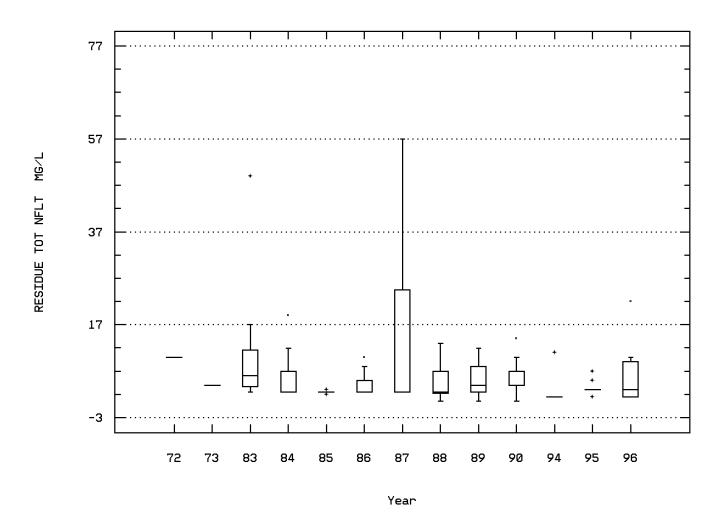
Station: BOWA0004 Parameter Code: 00505 RESIDUE, TOTAL VOLATILE (MG/L)



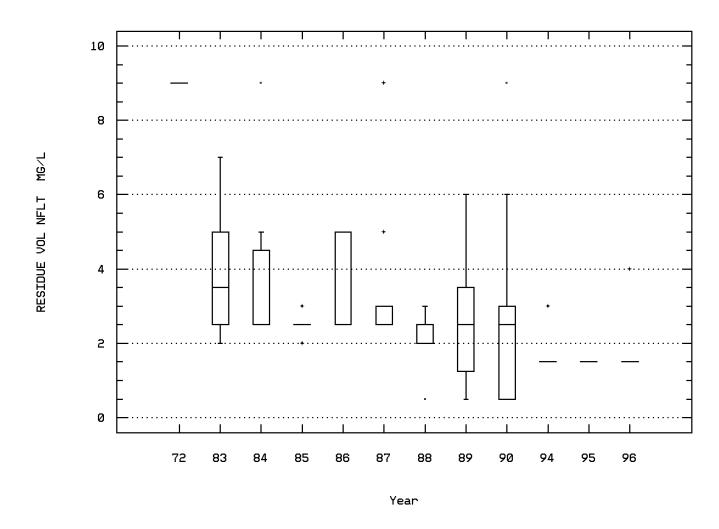
Station: BOWA0004 Parameter Code: 00510 RESIDUE, TOTAL FIXED (MG/L)



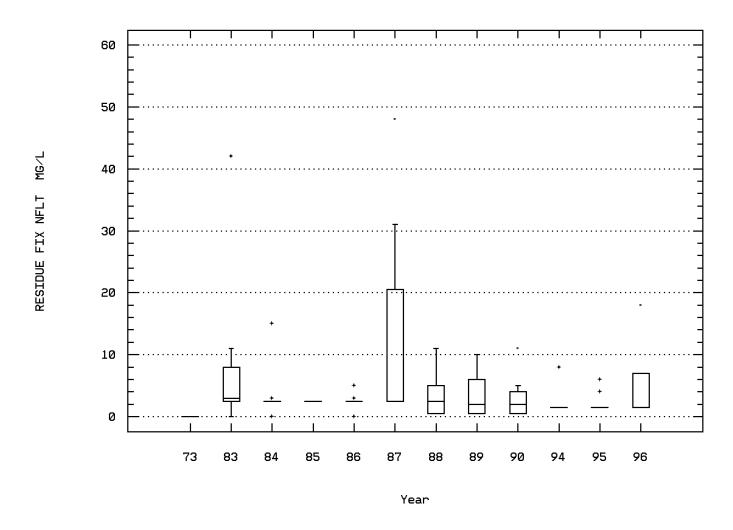
Station: BOWA0004 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)



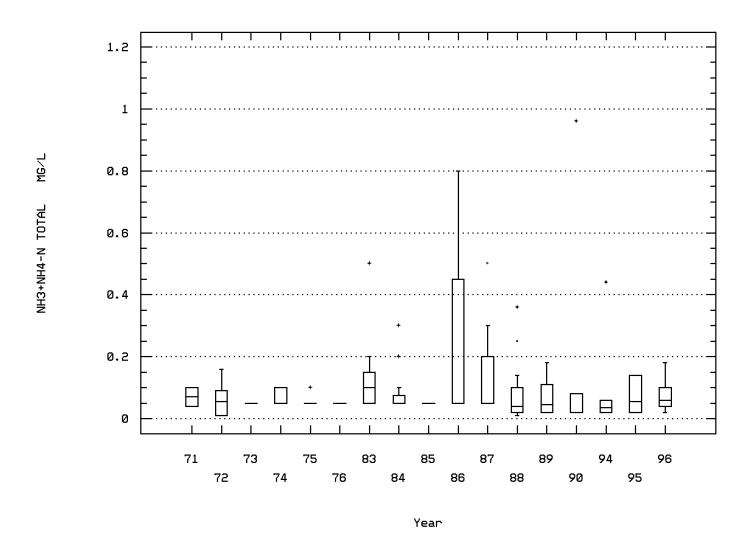
Station: BOWA0004 Parameter Code: 00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)



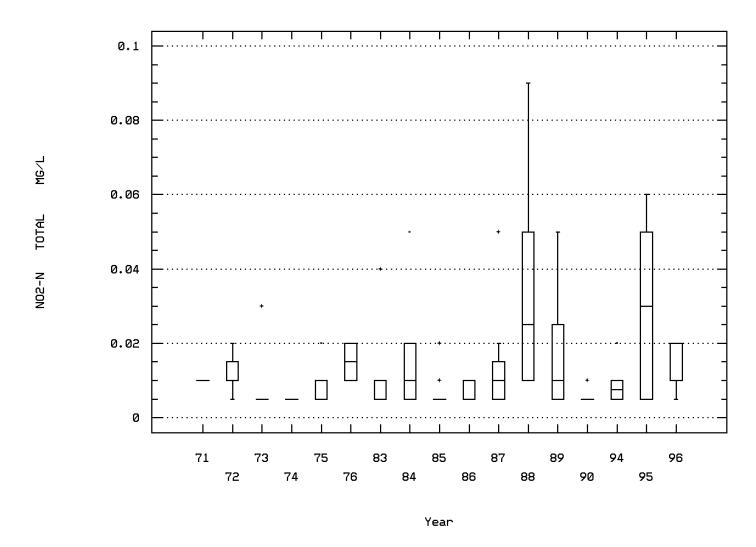
Station: BOWA0004 Parameter Code: 00540 RESIDUE, FIXED NONFILTRABLE (MG/L)



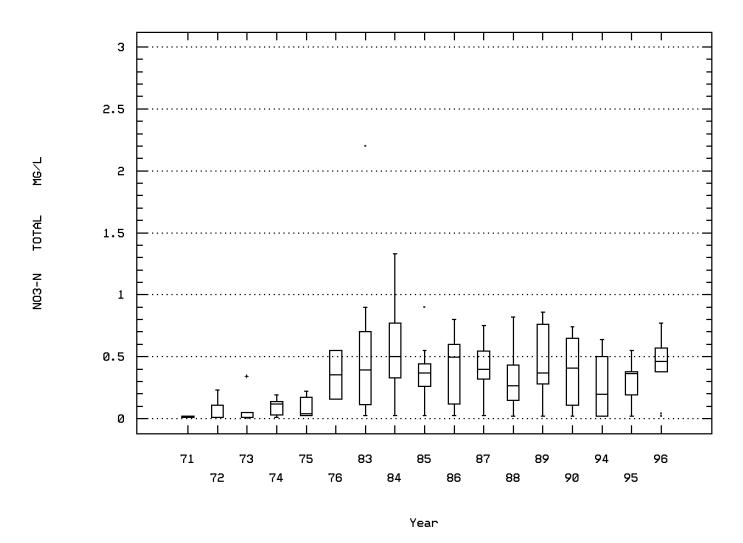
Station: BOWA0004 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



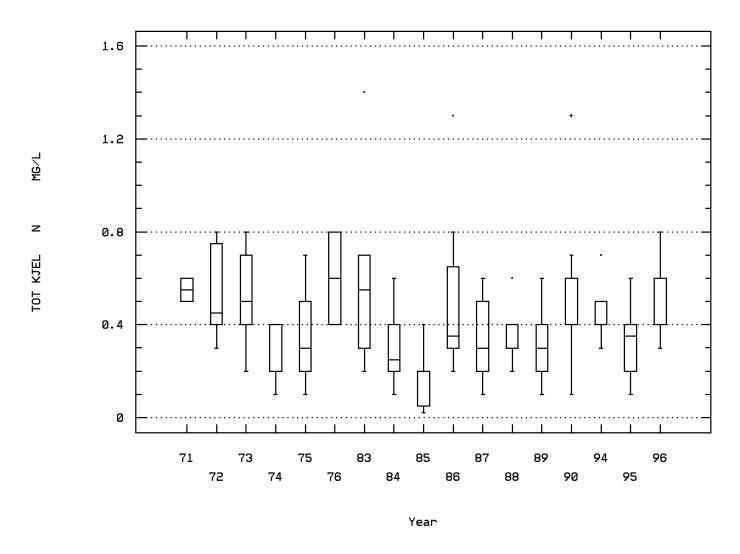
Station: BOWA0004 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



Station: BOWA0004 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)



Station: BOWA0004 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



SMITH MTN. LAKE, HALES FORD

Seasonal Analysis for Season #1: 8/01 to 10/14 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	72	18.4	20.243	30.6	11.	30.2	5.495	14.2	15.85	26.1	28.07
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	08/16/88-10/21/96	24	192.5	185.875	265.	70.	2237.853	47.306	115.	160.5	216.75	248.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	11	210.	212.091	249.	177.	603.291	24.562	177.4	188.	236.	246.8
00300p	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	61	5.6	5.385	13.6	0.	18.248	4.272	0.12	0.6	9.2	10.8
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	71	7.81	7.994	9.5	6.12	0.752	0.867	7.	7.25	8.9	9.086
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	71	7.81	7.313	9.5	6.12	1.224	1.106	7.	7.25	8.9	9.086
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	71	0.015	0.049	0.759	0.	0.013	0.113	0.001	0.001	0.056	0.1
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	50	7.45	7.626	9.4	6.5	0.454	0.674	6.92	7.1	7.95	8.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	50	7.447	7.259	9.4	6.5	0.591	0.769	6.92	7.1	7.95	8.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	50	0.036	0.055	0.316	0.	0.005	0.072	0.002	0.011	0.079	0.121
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	51	74.	75.686	111.	57.	171.94	13.113	60.	64.	87.	90.
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	50	130.	130.	182.	40.	563.02	23.728	104.2	114.5	145.25	156.8
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	50	30.	28.8	60.	0.	155.061	12.452	12.5	19.75	37.	42.9
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	50	103.	101.2	149.	23.	416.	20.396	80.	87.5	113.25	125.7
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	51##		4.765	23.	0.5	21.744	4.663	1.5	2.5	6.	11.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	51#		2.461	5.	0.5	1.058	1.029	1.5	2.	3.	4.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	51##	[‡] 2.5	3.51	18.	0.	12.855	3.585	0.5	1.5	3.	7.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	59 ##		0.115	0.96	0.01	0.033	0.182	0.02	0.05	0.08	0.36
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	58 ##		0.01	0.05	0.005	0.	0.01	0.005	0.005	0.01	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	58	0.175	0.215	0.86	0.01	0.041	0.203	0.01	0.025	0.38	0.5
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	59	0.4	0.41	1.3	0.02	0.067	0.259	0.1	0.3	0.6	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	45	0.02	0.037	0.1	0.005	0.001	0.032	0.008	0.01	0.05	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	30 #		0.014	0.1	0.005	0.	0.02	0.005	0.005	0.013	0.038
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	12	9.	9.333	12.	6.	2.788	1.67	6.3	9.	10.75	11.7
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	12	12.5	13.417	17.	10.	5.902	2.429	10.3	12.	16.	17.
01002p	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	33 #		2.273	5.	0.5	3.595	1.896	0.5	0.5	5.	5.
01027p	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	35 #		1.929	5.	0.5	3.532	1.879	0.5	0.5	5.	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	36#		8.972	25.	0.5	95.013	9.747	0.5	1.	21.25	25. 25.
01042p	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	36 #		12.361	25.	5.	63.552	7.972	5.	5.	23.75	
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	29	190.	377.172	2750.	25.	346380.362	588.541	40.	75.	330.	1230.
01051p	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	36#		4.944	21.	0.5	15.883	3.985	0.85	2.25	5.	10.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	30	25.	96.633	781.	5.	29967.757	173.112	5.	10.	100.	262.7
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	30 ##		25.333	80.	5.	486.092	22.047	5.	5.	31.25	59.
01092p	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	36	10.	21.528	220.	5.	1321.171	36.348	5.	10.	25.	29.5
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	04/13/83-10/04/94	31#		2.823	10.	0.5	8.726	2.954	0.5	0.5	5.	9.
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/11/71-10/21/96	20 #		0.023	0.07	0.005	0.	0.021	0.005	0.005	0.05	0.05
71900p	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	36#	¢ 0.15	0.21	1.1	0.15	0.029	0.171	0.15	0.15	0.225	0.295

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0004

Paramete	•	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	38	15.55	13.879	21.3	4.9	25.37	5.037	6.89	8.725	17.8	20.06
			30										
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	17	203.	193.588	267.	90.	1917.632	43.791	106.	175.5	220.	246.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	11	251.	248.636	284.	223.	413.255	20.329	223.6	230.	266.	281.4
00300p	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	30	8.2	7.013	12.	0.3	11.846	3.442	0.51	5.175	9.475	10.9
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	39	7.6	7.597	9.2	6.1	0.463	0.681	6.4	7.2	7.9	8.4
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	39	7.6	7.047	9.2	6.1	0.774	0.88	6.4	7.2	7.9	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	39	0.025	0.09	0.794	0.001	0.035	0.187	0.004	0.013	0.063	0.398
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	31	7.6	7.59	8.7	6.6	0.247	0.497	7.	7.2	7.9	8.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	31	7.6	7.331	8.7	6.6	0.316	0.562	7.	7.2	7.9	8.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	31	0.025	0.047	0.251	0.002	0.003	0.056	0.006	0.013	0.063	0.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	31	78.	78.484	109.	23.	252.458	15.889	60.4	71.	89.	98.2
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	32	143.	143.594	206.	100.	715.475	26.748	113.6	121.75	157.5	193.6
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	32	32.5	38.	140.	19.	439.548	20.965	24.3	27.25	42.25	55.1
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	32	107.	108.531	150.	68.	407.483	20.186	82.3	94.25	119.	144.2

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	32	3.	9.438	57.	0.5	191.496	13.838	2.	2.5	9.5	31.6
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	32	2.5	2.766	9.	0.5	3.693	1.922	0.65	1.5	3.	5.7
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	31	2.5	7.339	48.	0.	151.54	12.31	0.5	1.5	6.	29.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	35	0.06	0.12	0.6	0.02	0.015	0.124	0.02	0.05	0.2	0.27
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	35	0.01	0.015	0.06	0.005	0.	0.014	0.005	0.005	0.02	0.044
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	35	0.44	0.476	2.2	0.01	0.152	0.39	0.064	0.21	0.61	0.8
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	35	0.3	0.363	0.8	0.1	0.039	0.197	0.1	0.2	0.5	0.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	31	0.02	0.04	0.2	0.005	0.003	0.056	0.01	0.01	0.03	0.176
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	17	0.01	0.028	0.11	0.005	0.001	0.034	0.005	0.005	0.05	0.086
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	11	11.	11.273	17.	9.	5.818	2.412	9.	9.	13.	16.2
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	11	15.	15.545	21.	13.	5.273	2.296	13.	14.	17.	20.2
01002p	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	19 ##		1.895	2.5	0.5	0.849	0.922	0.5	0.5	2.5	2.5
01027p	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	19 ##		1.184	1.5	0.5	0.228	0.478	0.5	0.5	1.5	1.5
01034p	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	19 ##		13.842	25.	0.5	146.39	12.099	0.5	1.	25.	25.
01042p	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	19 ##		15.395	25.	2.5	110.599	10.517	2.5	5.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/04/94	16	125.	520.	2000.	25.	427650.	653.95	25.	52.5	755.	1930.
01051p	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	19 ##		4.684	10.	0.5	5.978	2.445	0.5	4.	5.	10.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	19 ##		48.158	210.	5.	3245.029	56.965	20.	25.	50.	200.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	18 ##		25.694	50.	2.5	203.533	14.267	2.5	23.75	30.	50.
01092p	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	19 ##		21.447	50.	2.5	123.83	11.128	2.5	20.	25.	30.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	19 ##		1.895	2.5	0.5	0.849	0.922	0.5	0.5	2.5	2.5
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/11/71-10/21/96	12 ##		0.018	0.05	0.005	0.	0.016	0.005	0.005	0.02	0.05
71900p	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	20 ##	0.15	0.157	0.3	0.15	0.001	0.034	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-10/21/96	69	16.	17.478	30.	6.	66.318	8.144	8.	9.9	26.1	27.8
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	14	200.5	194.143	265.	135.	2122.747	46.073	137.5	150.	235.5	262.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	8	233.	227.625	262.	194.	748.268	27.354	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	07/07/71-10/01/90	61	8.7	7.77	13.2	0.	10.956	3.31	2.	5.65	10.3	11.
00400p	PH (STANDARD UNITS)	07/07/71-10/21/96	68	8.35	8.273	9.8	6.8	0.718	0.847	7.045	7.5	9.	9.3
00400p	CONVERTED PH (STANDARD UNITS)	07/07/71-10/21/96	68	8.347	7.616	9.8	6.8	1.157	1.075	7.045	7.5	9.	9.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-10/21/96	68	0.004	0.024	0.158	0.	0.001	0.039	0.001	0.001	0.032	0.09
00403p	PH, LAB, STANDARD UNITS SU	07/20/72-10/21/96	40	7.65	7.877	9.2	7.1	0.322	0.568	7.3	7.425	8.35	8.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-10/21/96	40	7.647	7.629	9.2	7.1	0.385	0.621	7.3	7.425	8.35	8.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-10/21/96	40	0.023	0.023	0.079	0.001	0.	0.02	0.002	0.005	0.038	0.05
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/72-10/21/96	40	81.	78.625	103.	10.	262.292	16.195	62.4	70.	89.75	97.
00500p	RESIDUE, TOTAL (MG/L)	06/29/72-10/21/96	40	139.	139.45	177.	91.	385.126	19.625	114.1	123.5	153.75	168.3
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-10/21/96	40	34.	35.075	55.	16.	85.148	9.228	22.	29.25	42.75	47.9
00510p	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-10/21/96	40	102.5	101.925	143.	11.	583.353	24.153	81.1	85.	117.25	129.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/72-10/21/96	40 ##		4.588	13.	1.5	11.011	3.318	1.5	2.5	6.75	10.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-10/21/96	40 ##		3.225	9.	0.5	5.371	2.318	1.5	1.5	3.75	8.7
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-10/21/96	39 ##		2.615	11.	0.	4.164	2.041	0.5	1.5	2.5	5.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-10/21/96	54 ##		0.068	0.5	0.01	0.005	0.071	0.02	0.04	0.08	0.12
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	54	0.01	0.015	0.09	0.005	0.	0.017	0.005	0.005	0.02	0.04
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-10/21/96	54	0.395	0.402	1.33	0.005	0.094	0.307	0.025	0.105	0.61	0.805
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/11/71-10/21/96	54	0.4	0.412	1.4	0.05	0.053	0.23	0.2	0.2	0.5	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/21/96	39	0.02	0.025	0.1	0.005	0.001	0.024	0.005	0.01	0.03	0.04
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-06/26/90	30	0.01	0.029	0.5	0.005	0.008	0.09	0.005	0.005	0.02	0.039
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	12	9.5	10.	15.	8.	4.545	2.132	8.	8.	11.	14.1
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	12	14.	22.833	116.	10.	868.152	29.464	10.6	13.	17.5	87.2
01002p	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-10/04/94	27 ##		3.278	26.	0.5	29.314	5.414	0.5	0.5	5.	6.8
01027p	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-10/04/94	27 ##		3.748	50.	0.1	89.643	9.468	0.42	0.5	5.	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-10/04/94	28 ##	5.	9.643	62.	0.5	248.386	15.76	0.5	0.5	8.75	28.1

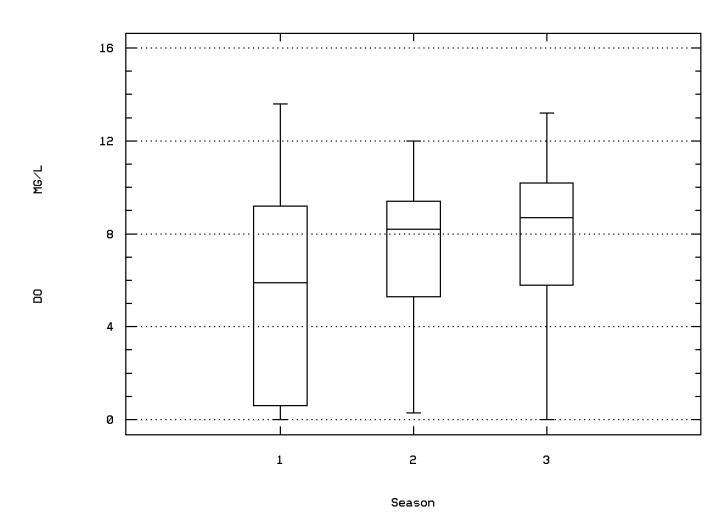
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0004

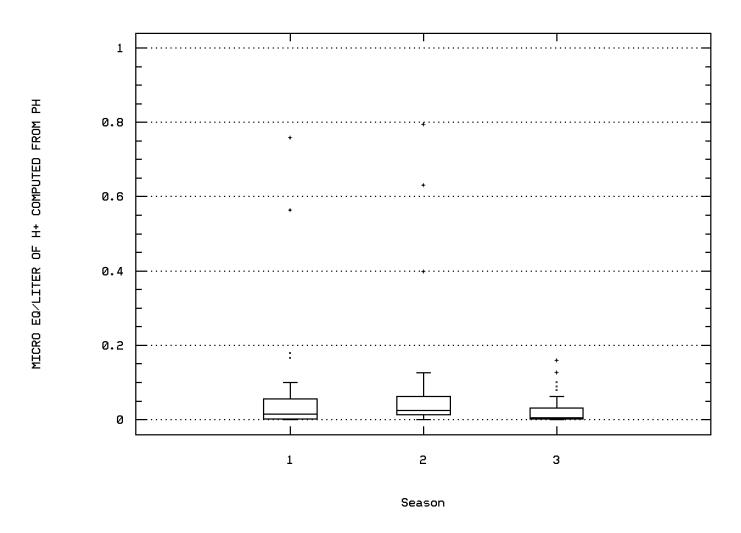
Parameter	r	Period of Record	Obs Median	n Mean	Maximum	Minimum Varia	nce Std. Dev.	10th	25th	75th	90th
01042p	COPPER, TOTAL (UG/L AS CU)	08/11/71-10/04/94	28 ## 5.	10.286	48.	5. 120.	063 10.957	5.	5.	10.	26.
01045	IRON, TOTAL (UĜ/L AS FE)	04/13/83-10/04/94	24 120.	1307.5	26780.	25. 29480044.	609 5429.553	30.5	42.5	317.5	705.
01051p	LEAD, TOTAL (UG/L AS PB)	08/11/71-10/04/94	28 ## 4.	7.821	79.	0.5 272	763 16.516	0.5	1.	5.	33.5
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/04/94	24 10.4	5 68.133	370.8	5. 9025.	09 95.	5.	5.	117.5	210.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/04/94	25 ## 5.	15.88	60.	5. 222.	693 14.923	5.	5.	25.	39.2
01092p	ZINC, TOTAL (UG/L AS ZN)	08/11/71-10/04/94	28 10.	23.714	212.	5. 1887.	841 43.449	5.	5.	20.	82.7
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/04/94	23 ## 0.5	2.587	10.	0.5	06 3.326	0.5	0.5	5.	10.
70507p	PHOSPHORUS,IN TOTAL ORTHÓPHOSPHATE (MG/L AS P)	08/11/71-10/21/96	24 ## 0.0	2 0.032	0.17	0.005 0.	0.036	0.005	0.005	0.05	0.05
71900p	MERCURY, TOTAL (UG/L AS HG)	08/11/71-10/04/94	28 ## 0.1	5 0.184	0.6	0.05	0.111	0.145	0.15	0.15	0.275

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

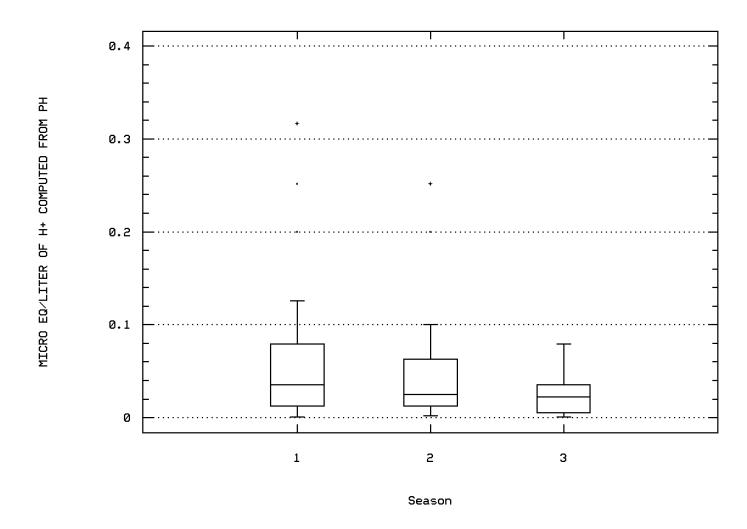
Station: BOWA0004 Parameter Code: 00300
OXYGEN, DISSOLVED



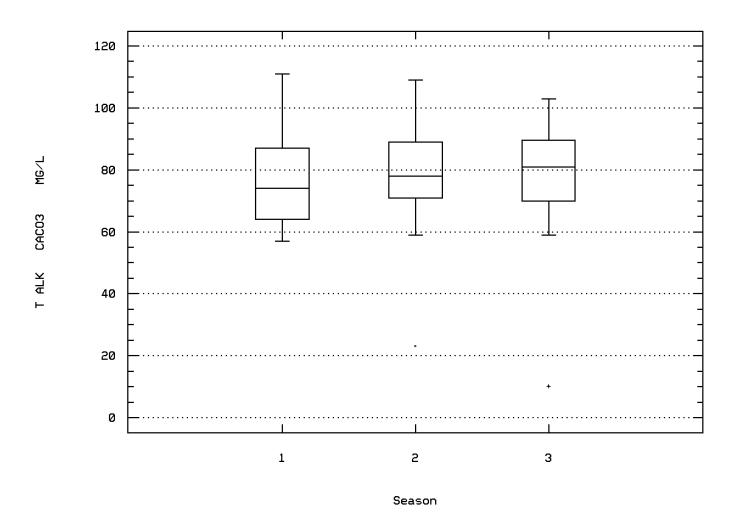
Station: BOWA0004 Parameter Code: 00400 MICRO EQ/LITER OF H+ COMPUTED FROM PH



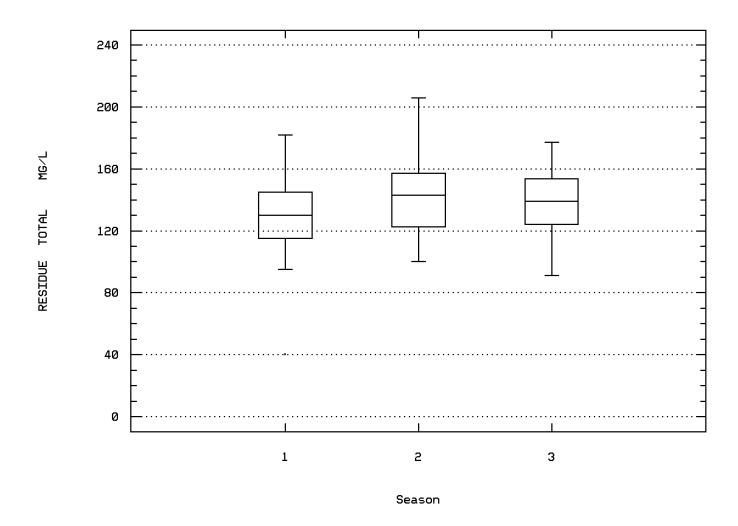
Station: BOWA0004 Parameter Code: 00403 MICRO EQ/LITER OF H+ COMPUTED FROM PH



Station: BOWA0004 Parameter Code: 00410 ALKALINITY, TOTAL (MG/L AS CACO3)

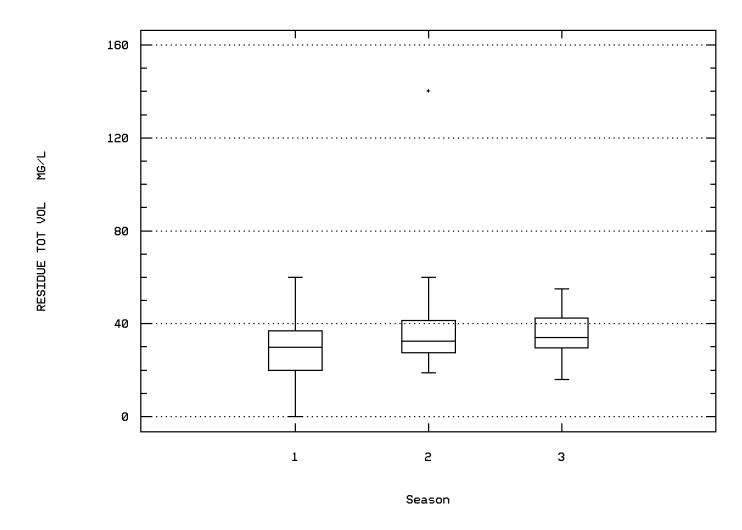


Station: BOWA0004 Parameter Code: 00500 RESIDUE, TOTAL (MG/L)



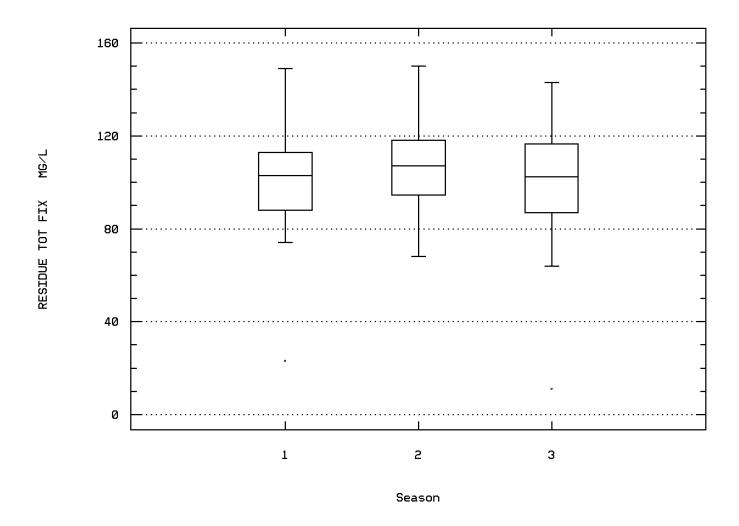
SMITH MTN. LAKE, HALES FORD

Station: BOWA0004 Parameter Code: 00505 RESIDUE, TOTAL VOLATILE (MG/L)

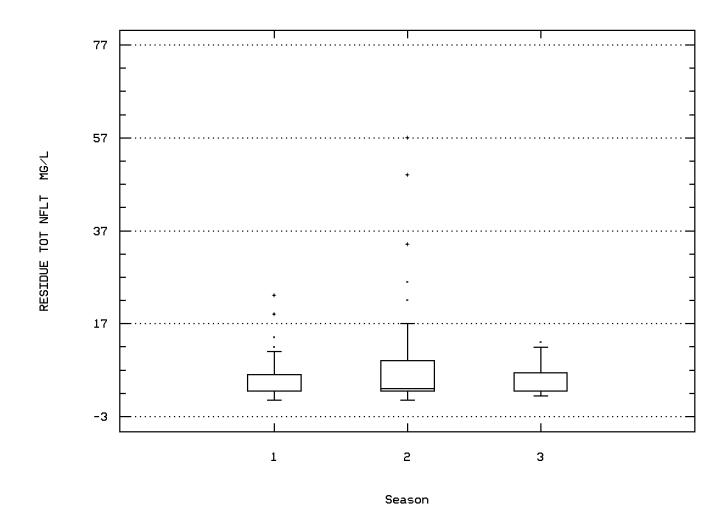


Station: BOWA0004 Parameter Code: 00510

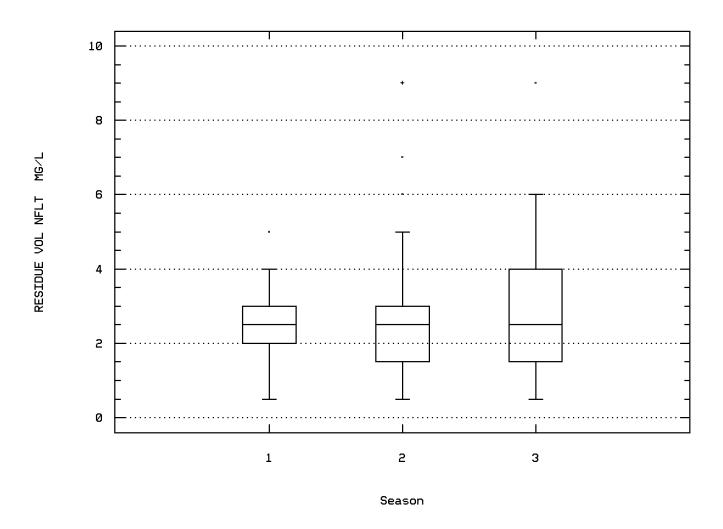
RESIDUE, TOTAL FIXED (MG/L)



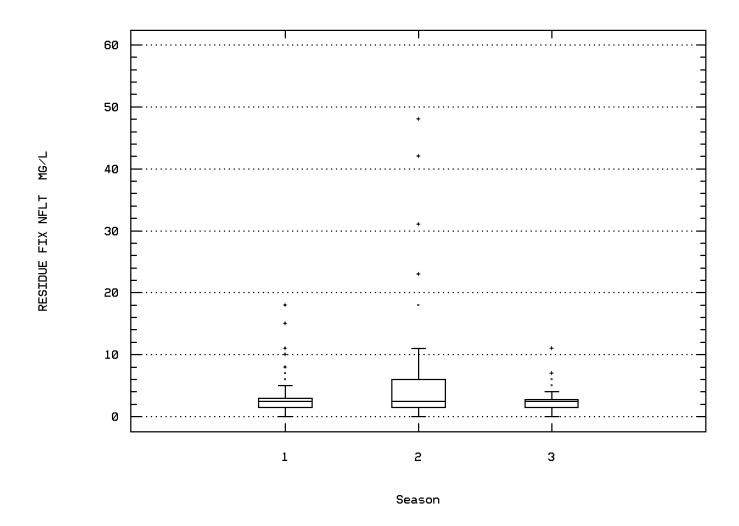
Station: BOWA0004 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)



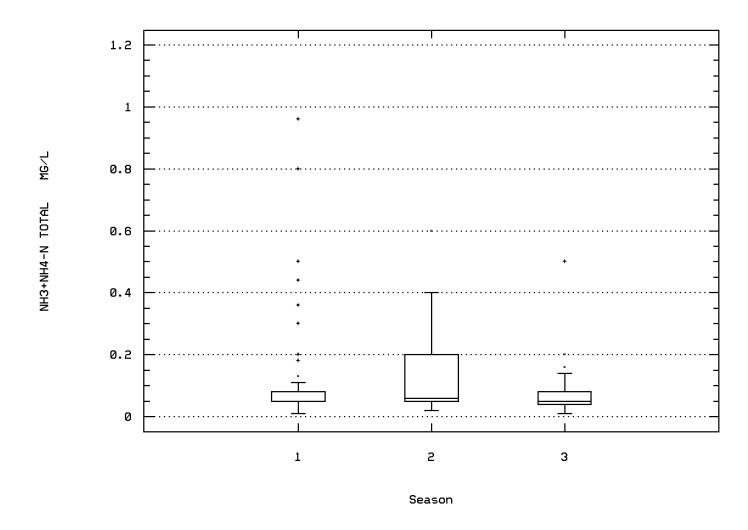
Station: BOWA0004 Parameter Code: 00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)



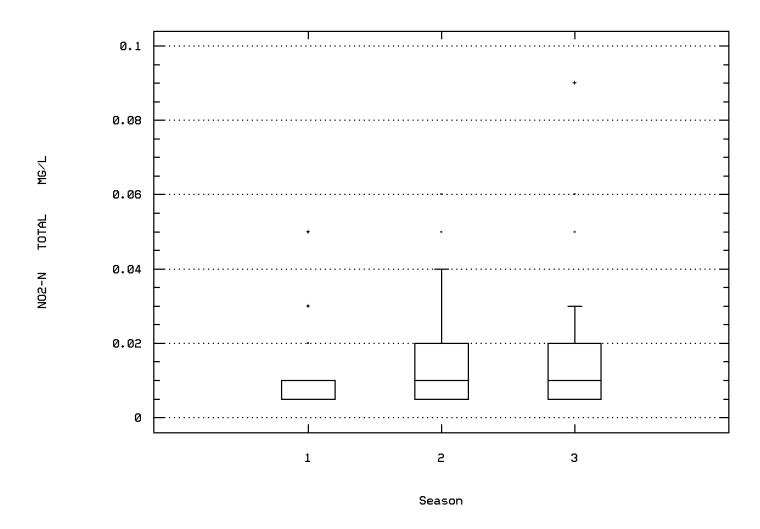
Station: BOWA0004 Parameter Code: 00540 RESIDUE, FIXED NONFILTRABLE (MG/L)



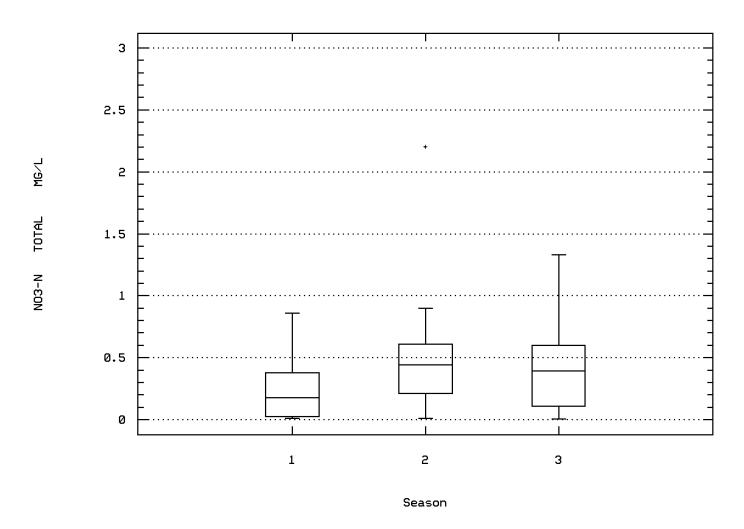
Station: BOWA0004 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



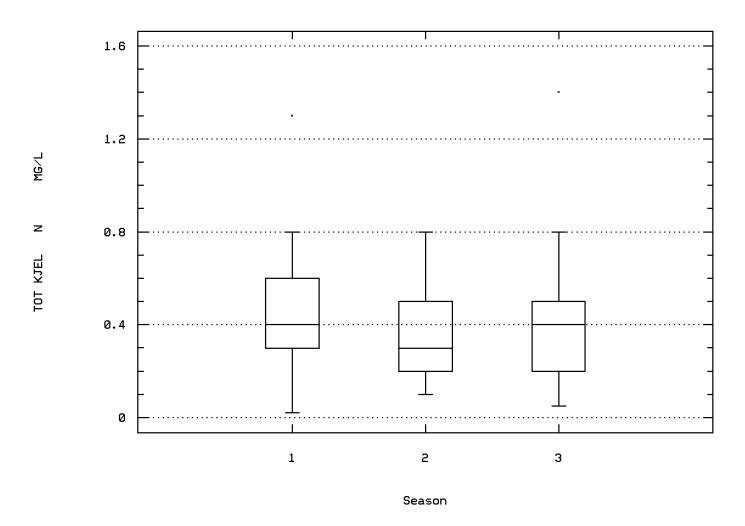
Station: BOWA0004 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



Station: BOWA0004 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)

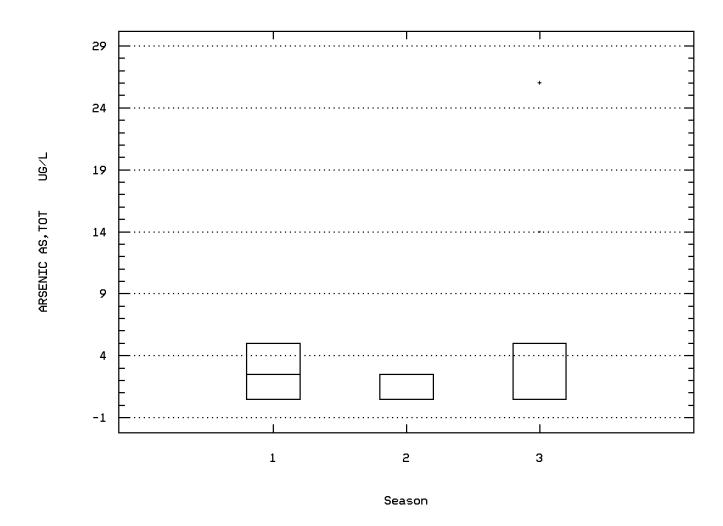


Station: BOWA0004 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)

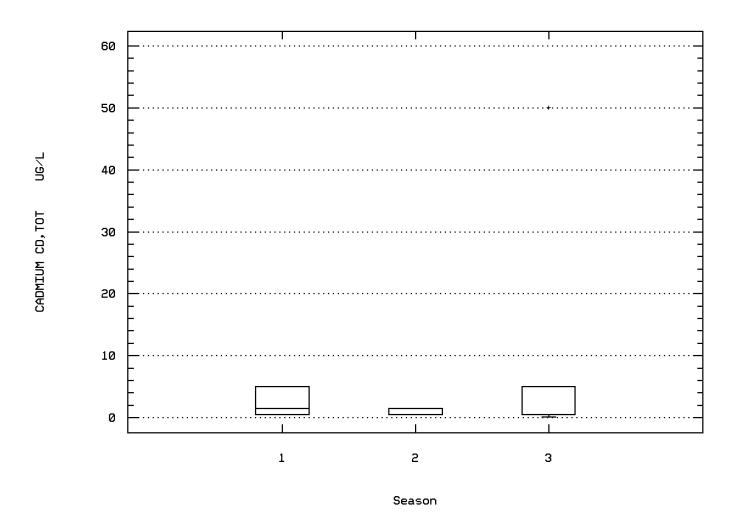


SMITH MTN. LAKE, HALES FORD

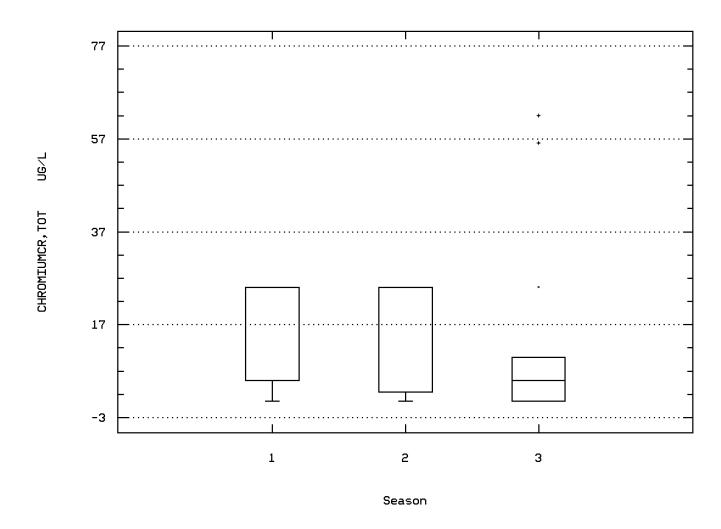
Station: BOWA0004 Parameter Code: 01002 ARSENIC, TOTAL (UG/L AS AS)



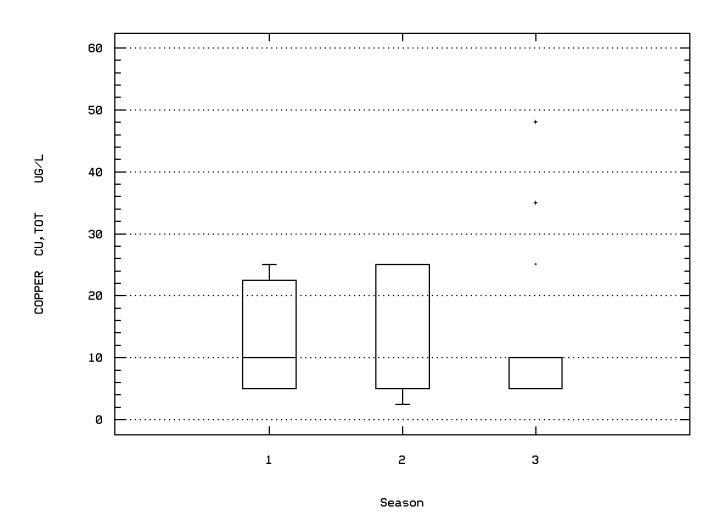
Station: BOWA0004 Parameter Code: 01027 CADMIUM, TOTAL (UG/L AS CD)



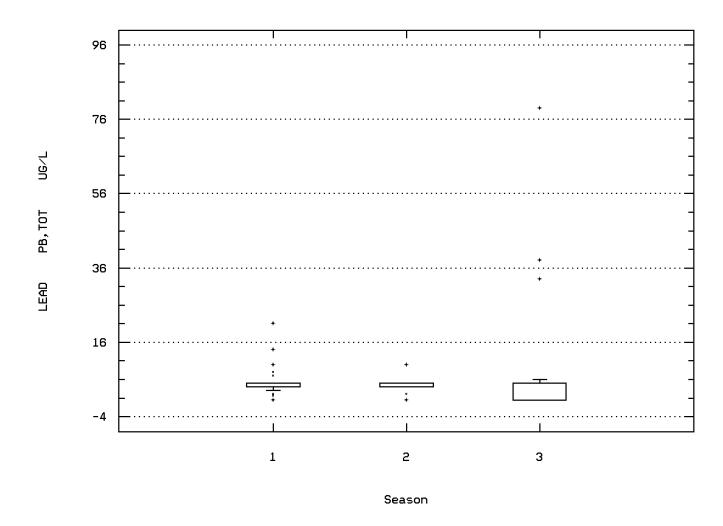
Station: BOWA0004 Parameter Code: 01034 CHROMIUM, TOTAL (UG/L AS CR)



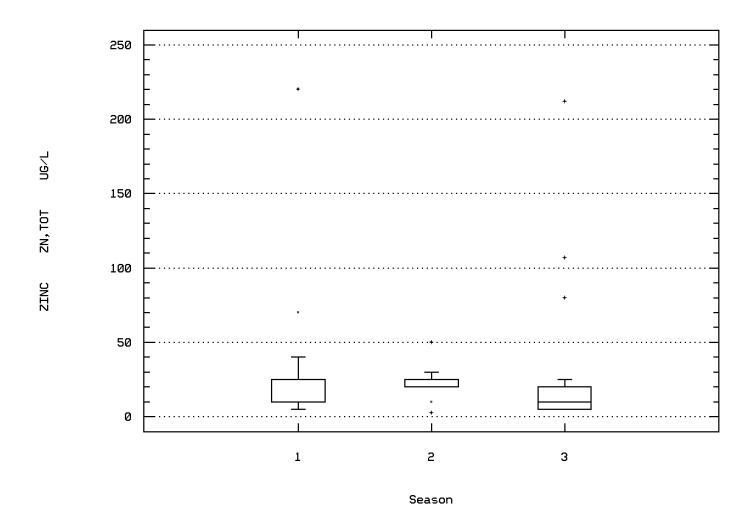
Station: BOWA0004 Parameter Code: 01042 COPPER, TOTAL (UG/L AS CU)



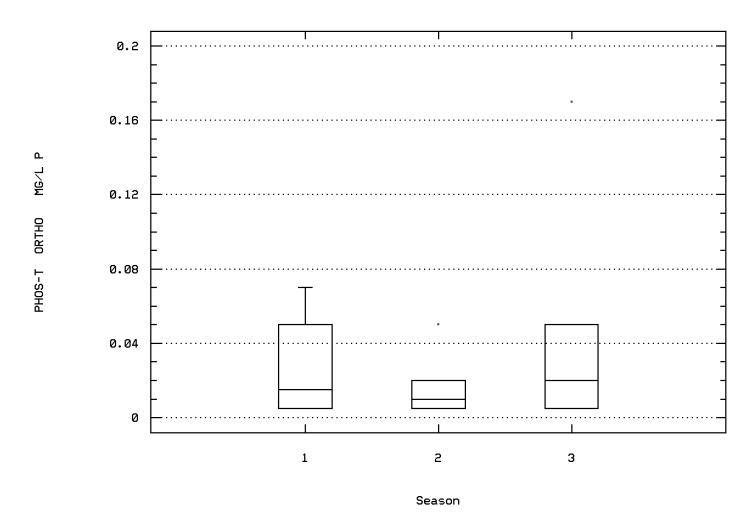
Station: BOWA0004 Parameter Code: 01051 LEAD, TOTAL (UG/L AS PB)



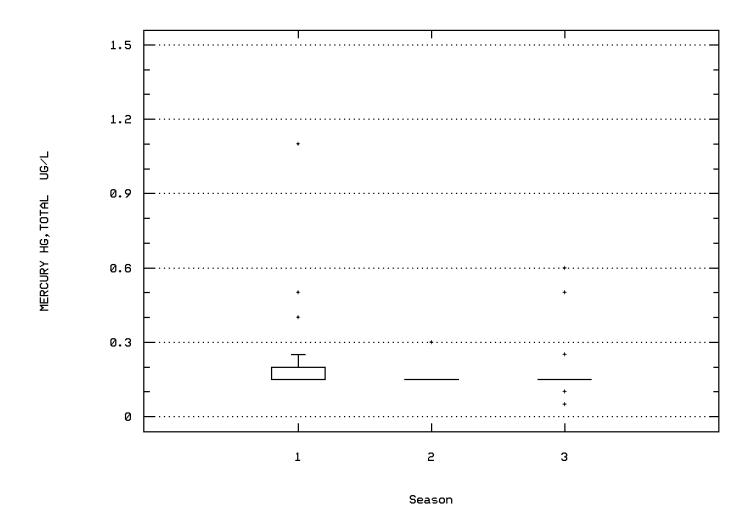
Station: BOWA0004 Parameter Code: 01092 ZINC, TOTAL (UG/L AS ZN)



Station: BOWA0004 Parameter Code: 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/



Station: BOWA0004 Parameter Code: 71900 MERCURY, TOTAL (UG/L AS HG)



Station Inventory for Station: BOWA0005

NPS Station ID: BOWA0005 Location: ABOVE STRIPERS LANDING

Station Type: /TYPA/AMBNT/LAKE RMI-Indexes:

RMI-Hides: HUC: 03010101 Major Basin: 03-SOUTHEAST Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101024

RF3 Index: 03010101002700.85

VIRGINIA STATE WATER CONTROL BOARD RIVER: GILLS CREEK SECTION

Depth of Water: 0 Elevation: 0

LAT/LON: 37.072226/ -79.681948

RF1 Mile Point: 50.420 RF3 Mile Point: 1.39

INTENSIVE SURVEY NO. 835104 BASIN: 4A ROANOKE TOPO MAP #: 0044 TOPO MAP NAME: MONETA SW, VA SECTION: 05

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN STORET Station ID(s): 4AGIL003.59 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.06

On/Off RF1: OFF On/Off RF3:

Date Created: 05/11/84

REGION: 2 WEST CENTRAL

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/21/86	41	17.	16.495	28.5	6.	29.727	5.452	8.8	12.2	18.75	25.36
00300	OXYGEN, DISSOLVED MG/L	05/10/84-10/21/86	42	6.5	5.826	13.2	0.2	16.756	4.093	0.53	2.	9.4	10.8
00400	PH (STANDARD UNITS)	05/10/84-10/21/86	45	7.2	7.277	8.7	6.29	0.356	0.597	6.44	6.855	7.7	8.04
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/21/86	45	7.2	6.932	8.7	6.29	0.478	0.691	6.44	6.855	7.7	8.04
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/21/86	45	0.063	0.117	0.513	0.002	0.021	0.146	0.009	0.02	0.14	0.368
00403	PH, LAB, ŜTANDARD UNITS SU	05/10/84-10/21/86	32	6.9	6.994	8.4	6.2	0.291	0.539	6.33	6.525	7.275	7.77
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/21/86	32	6.9	6.757	8.4	6.2	0.349	0.591	6.33	6.525	7.275	7.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/21/86	32	0.126	0.175	0.631	0.004	0.026	0.162	0.017	0.053	0.3	0.47
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/21/86	32	41.5	41.469	61.	22.	66.515	8.156	29.	37.25	48.	51.
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/21/86	30	80.	390.733	9438.	59.	2919943.72	1708.784	67.	71.	88.25	93.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/21/86	30	20.5	111.7	2760.	2.	250243.114	500.243	8.4	16.75	25.5	31.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/21/86	30	59.5	279.033	6678.	36.	1460754.585	1208.617	44.1	51.	67.25	71.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/21/86	31	2.5	5.113	16.	2.	17.078	4.133	2.1	2.5	6.	13.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/21/86	31	2.5	3.177	8.	1.	1.992	1.412	2.	2.5	4.	5.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/21/86	31##		3.306	12.	0.	6.578	2.565	2.	2.5	3.	8.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/21/86	32 ##	0.05	0.075	0.3	0.05	0.003	0.057	0.05	0.05	0.088	0.17
00615	NITRITE NÍTROGEN, TÓTAL (MĜ/L AS N)	05/10/84-10/21/86	32 ##	0.005	0.012	0.1	0.005	0.	0.018	0.005	0.005	0.01	0.03
00620	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	05/10/84-10/21/86	32	0.165	0.171	0.47	0.025	0.015	0.124	0.025	0.063	0.26	0.358
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/21/86	32	0.35	0.341	0.6	0.1	0.013	0.116	0.2	0.225	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/21/86	32	0.02	0.023	0.05	0.005	0.	0.01	0.01	0.02	0.03	0.037
00671	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	05/10/84-10/21/86	32 ##	0.005	0.009	0.03	0.005	0.	0.006	0.005	0.005	0.01	0.02
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/21/86	21 ##	0.5	3.19	27.	0.5	58.187	7.628	0.5	0.5	1.	20.8
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/12/84-07/12/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/21/86	21 ##	0.5	0.774	7.	0.1	2.048	1.431	0.22	0.5	0.5	0.5
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/12/84-07/12/84	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/12/84-07/12/84	1	40.7	40.7	40.7	40.7	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/21/86	21 ##	0.5	5.619	56.	0.5	244.198	15.627	0.5	0.5	1.	39.4
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/21/86	21 ##	· 5.	9.	37.	5.	90.6	9.518	5.	5.	10.	31.6
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/12/84-07/12/84	1	34.2	34.2	34.2	34.2	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/21/86	19	300.	334.211	1100.	100.	72292.398	268.872	100.	160.	400.	850.
01051	LEAD. TOTAL (UG/L AS PB)	05/10/84-10/21/86	21 ##	1.	7.452	54.	0.5	238.848	15.455	0.5	0.75	3.5	39.4
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/12/84-07/12/84	1	35.5	35.5	35.5	35.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/84-10/21/86	20	25.	86.09	516.8	5.	22161.973	148.869	10.	10.	55.	379.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0005

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/21/86	21 ##	30.	33.19	50.	5.	319.762	17.882	5.	20.	50.	50.
01068	NICKEL, TOTAL ÎN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/12/84-07/12/84	1	41.3	41.3	41.3	41.3	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/21/86	21	10.	22.381	141.	5.	1517.148	38.951	5.	7.5	10.	115.2
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/12/84-07/12/84	1	145.	145.	145.	145.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/21/86	19 ##	0.5	0.579	2.	0.5	0.118	0.344	0.5	0.5	0.5	0.5
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/12/84-07/18/86	3	9.	8.467	10.4	6.	5.053	2.248	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	10/17/85-10/17/85	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/21/86	24 ##	0.15	0.142	0.15	0.05	0.001	0.028	0.1	0.15	0.15	0.15
71921	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/12/84-07/12/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BOWA0005

				Total	Exceed	Prop.		-8/01-10/14			-10/15-4/30-			5/01-7/31			n/a	
Paramete		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	42	19	0.45	13	9	0.69	10	2	0.20	19	8	0.42			
00400	PH	Other-Hi Lim.	9.	45	0	0.00	12	0	0.00	14	0	0.00	19	0	0.00			
		Other-Lo Lim.	6.5	45	8	0.18	12	0	0.00	14	4	0.29	19	4	0.21			
00403	PH, LAB	Other-Hi Lim.	9.	32	0	0.00	9	0	0.00	11	0	0.00	12	0	0.00			
		Other-Lo Lim.	6.5	32	8	0.25	9	5	0.56	11	2	0.18	12	1	0.08			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	32	0	0.00	9	0	0.00	11	0	0.00	12	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	32	0	0.00	9	0	0.00	11	0	0.00	12	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
		Drinking Water	50.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	21	1	0.05	10	0	0.00	2	0	0.00	9	1	0.11			
		Drinking Water	5.	21	1	0.05	10	0	0.00	2	0	0.00	9	1	0.11			
01034	CHROMIUM, TOTAL	Drinking Water	100.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	21	2	0.10	10	0	0.00	2	0	0.00	9	2	0.22			
		Drinking Water	1300.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
		Drinking Water	15.	21	3	0.14	10	1	0.10	2	0	0.00	9	2	0.22			
01067	NICKEL, TOTAL	Fresh Acute	1400.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
		Drinking Water	100.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	21	2	0.10	10	0	0.00	2	0	0.00	9	2	0.22			
		Drinking Water	5000.	21	0	0.00	10	0	0.00	2	0	0.00	9	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	19	0	0.00	10	0	0.00	2	0	0.00	7	0	0.00			
		Drinking Water	50.	19	0	0.00	10	0	0.00	2	0	0.00	7	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	24	0	0.00	10	0	0.00	5	0	0.00	9	0	0.00			
		Drinking Water	2.	24	0	0.00	10	0	0.00	5	0	0.00	9	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0006

NPS Station ID: BOWA0006 LAT/Lucation: SMITH MOUNTAIN LAKE NEAR ROUTE 122 BRIDGE LAT/LON: 37.154170/ -79.683337

Station Type: /TYPA/AMBNT/LAKE/TISSUE RMI-Indexes:

Description:

RMI-miles:
HUC: 03010101
Major Basin: SOUTHEAST
Minor Basin: ROANOKE RIVER
RF1 Index: 03010101

RF3 Index: 03010101002707.60

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 8.34

Agency: 1113WSWQ FIPS State/County: 51019 VIRGINIA/BEDFORD STORET Station ID(s): RO-2 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.80 Distance from RF3: 0.03

On/Off RF1: On/Off RF3:

Date Created: 10/01/88

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	06/02/87-06/02/87	6	0.21	0.232	0.48	0.12	0.018	0.133	**	**	**	**
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	06/02/87-06/02/87	6 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	06/02/87-06/02/87	6	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34204	ACENAPHTHYLENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34209	ACENAPHTHENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34224	ANTHRACENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34251	BENZO-A-PYRENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34252	BERYLLIUM WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34258	B-BHC-BETA WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34296	N-BÙTYL BENZYL PHTHALATE, TISSUE, WET WGT, MG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34324	CHRYSENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34380	FLUORANTHENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34385	FLUORENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34400	HEXACHLOROETHANE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34412	ISOPHORONE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34446	NAPHTHALENE WET WGTTISMG/KG	06/02/87-06/02/87	5 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34451	NITROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34465	PHENANTHRENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34468	PHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	Ö.	Õ.	**	**	**	**
34473	PYRENE WET WGTTISMG/KG	06/02/87-06/02/87	5 ##	0.25	0.25	0.25	0.25	0.	Ô.	**	**	**	**
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	Ô.	**	**	**	**
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##		0.5	0.5	0.5	0.	Ô.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

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Parameter	r	Period of Record	Obs M	/ledian	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ## 6 ##	0.5 0.25	0.5	0.5 0.25	0.5	0.	0.	**	**	**	**
34585 34590	2-CHLORONAPHTHALENE WET WGTTISMG/KG 2-CHLOROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87 06/02/87-06/02/87	6 ## 6 ##	0.25	0.25 0.5	0.25	0.25 0.5	0. 0.	0. 0.	**	**	**	**
34595	2-NITROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34635 34640	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG 4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	06/02/87-06/02/87 06/02/87-06/02/87	6 ## 6 ##	1.2 0.5	1.2 0.5	1.2 0.5	1.2 0.5	0.	0. 0.	**	**	**	**
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0. 0.	**	**	**	**
34650	4-NITROPHENOL WET WGTTISMG/KG	06/02/87-06/02/87	6##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	06/02/87-06/02/87	1 ##	0.05	0.05	0.05	0.05	Õ.	0.	**	**	**	**
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	06/02/87-06/02/87	5 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
34664	PCB - 1221 WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	06/02/87-06/02/87	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.05	0.073	0.13	0.05	0.001	0.037	**	**	**	**
34674 34680	PCB - 1016 WET WGTTISMG/KG ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	06/02/87-06/02/87 06/02/87-06/02/87	6 ## 6 ##	0.05 0.5	0.05 0.5	0.05 0.5	0.05 0.5	0. 0.	0. 0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS), TISSUEWET WGTT, MG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGTWET WGT	06/02/87-06/02/87	6 ##	0.445	1.343	5.6	0.25	4.455	2.111	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39060 39074	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/02/87-06/02/87 06/02/87-06/02/87	6 ## 6 ##	2.4 0.5	2.4 0.5	2.4 0.5	2.4 0.5	0.	0. 0.	**	**	**	**
39074	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	06/02/87-06/02/87	6	1.355	1.347	1.6	1.1	0. 0.031	0. 0.176	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.031	0.170	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	Ö.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39482	METHOXYCHLOR IN FISH - UG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	06/02/87-06/02/87		500.	500.	500.	500.	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE), TISSUE, WET WEIGHT, MG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0. 0.002	0.	**	**	**	**
71930 71936	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/02/87-06/02/87 06/02/87-06/02/87	6 6##	0.115 0.05	0.117 0.05	0.18 0.05	0.05 0.05	0.002	0.042 0.	**	**	**	**
71930	COPPER, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/02/87-06/02/87	6	0.03	0.03	0.03	0.03	0.002	0.044	**	**	**	**
71939	CHROMIUM, TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	06/02/87-06/02/87	6 ##	0.05	0.05	0.05	0.05	0.002	0.011	**	**	**	**
71940	CADMIUM, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/02/87-06/02/87	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
76184	BENZYL AĹCOHOL TISSUE ,WET WGT,MG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
76287	BENZOIC ACID TISSUE ,WET WGT,MG/KG	06/02/87-06/02/87	5 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
76619	DIBENZOFURAN TISSUE ,WET WGT,MG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	06/02/87-06/02/87	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
79041 79053	BENZO(GHI)PERYLENE TISWETWTMG/KG	06/02/87-06/02/87	6 ## 1 ##	0.25 0.5	0.25 0.5	0.25 0.5	0.25 0.5	0.	0.	**	**	**	**
79053 79055	4-CHLOROANILINE TISDRYWTMG/KG 2-METHYLNAPHTHALENE TISDRYWTMG/KG	06/02/87-06/02/87 06/02/87-06/02/87	1 ##	0.5 0.25	0.5 0.25	0.5 0.25	0.5 0.25	0. 0.	0. 0.	**	**	**	**
79056	2-NITROANILINE TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
79057	3-NITROANILINE TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
79058	4-NITROANILINE TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	2.4	2.4	2.4	2.4	ŏ.	Ö.	**	**	**	**
79145	2-METHYLPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
79146	4-METHYLPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
79147	2,4,5-TRICHLOROPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
79156	4,6-DINITRO-2-METHYLPHENOL TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	~ *	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Paramete	r	Period of Record	Obs 1	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
79163	4,4'-DDT TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
79164	4,4'-DDE TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
79166	4,4'-DDD TISDRYWTMG/KG	06/02/87-06/02/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/02/87-06/02/87	6	5.	5.	5.	5.	0.	0.	**	**	**	**
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	06/02/87-06/02/87	6	1.	1.167	2.	1.	0.167	0.408	**	**	**	**
85759	NITROANILINE, 2-, TISSUE, WET WT, MG/KG	06/02/87-06/02/87	5 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
85760	CHLORANILINÉ, 4- , TISSUÉ, WET WT, MG/KG	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
85762	NITROANILINE, 4- , TISSUE, WET WT, MG/KG	06/02/87-06/02/87	5 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
85763	NITROANILINE, 3- , TISSUE, WET WT, MG/KG	06/02/87-06/02/87	5 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
85764	TRICHLOROPHENOL, 2,4,5-, TISSUE, WET WT, MG/KG	06/02/87-06/02/87	5 ##	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
85765	METHYLNAPHTHALÉNÉ, 2- , TISSUÉ, WET WT, MG/KG	06/02/87-06/02/87	4 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85766	METHYLPHENOL, 4- , TIŚSUÉ, WET WT, MG/KĠ	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
85767	METHYLPHENOL, 2-, TISSUE, WET WT, MG/KG	06/02/87-06/02/87	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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^{*******} No EPA Water Quality Criteria exist to compare against the data at this station. ********

Station Inventory for Station: BOWA0007

NPS Station ID: BOWA0007 LAT/LON: 37.065281/ -79.687505

Location: SMITH MT. LAKE STA #23,BUOY 11A (FRANKLIN CO)

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles: HUC: 03010101 Major Basin: 03-SOUTHEAST

Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101024 RF3 Index: 03010101005310.77

ALSO INTENSIVE SURVEY: 925102

Description: VIRGINIA STATE WATER CONTROL BOARD RIVER: GILLS CREEK SECTION: 05 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 49.440

RF3 Mile Point: 11.65

INTENSIVE SURVEY NO. 835104 BASIN: 4A ROANOKE TOPO MAP #: 0044 TOPO MAP NAME: MONETA SW, VA

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN STORET Station ID(s): 4AGIL002.39 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region: Distance from RF1: 3.00 Distance from RF3: 0.57

On/Off RF1: OFF On/Off RF3:

Date Created: 05/11/84

REGION: 2 WEST CENTRAL

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	134	16.8	17.039	30.6	5.	34.316	5.858	9.8	12.925	19.9	26.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/19/88-04/26/94	18	5.45	9.417	29.	1.1	85.793	9.262	1.28	2.	15.675	26.3
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/30/94-10/24/96	15	8.	9.427	26.	1.7	59.221	7.695	2.24	2.7	16.2	22.4
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/14/93-10/24/96	8	1.5	1.688	2.3	1.5	0.087	0.295	**	**	**	**
00080	COLOR (PLATINÚM-COBALT UNITS)	08/29/90-08/29/90	3	23.	35.	61.	21.	508.	22.539	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	73	101.	104.411	170.	35.	698.884	26.436	70.8	90.	120.	139.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	43	111.	110.953	146.	77.	344.236	18.554	86.	94.	125.	136.
00299	OXYGEN, DISSOLVED, ANÀLYSIS BY PROBE MG/L	10/05/92-10/24/96	23	6.7	5.726	10.5	0.4	11.026	3.32	0.5	2.4	8.6	9.88
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	104	6.3	5.643	13.6	0.	13.97	3.738	0.2	1.85	8.9	10.25
00310	BOD, 5 DAY, 20 DEG C MG/L	04/27/89-04/27/89	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/27/89-10/04/89	9	9.	10.778	21.	7.	19.194	4.381	7.	7.5	12.5	21.
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	137	7.4	7.448	9.5	6.	0.542	0.736	6.5	6.865	8.05	8.442
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	137	7.4	6.954	9.5	6.	0.787	0.887	6.5	6.865	8.05	8.442
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	137	0.04	0.111	1.	0.	0.032	0.179	0.004	0.009	0.137	0.316
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	118	7.1	7.181	8.7	6.2	0.209	0.457	6.6	6.9	7.5	7.8
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	118	7.1	6.972	8.7	6.2	0.253	0.503	6.6	6.9	7.5	7.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	118	0.079	0.107	0.631	0.002	0.013	0.113	0.016	0.032	0.126	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	118	40.	38.305	59.	3.	128.898	11.353	25.9	32.	46.	51.1
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	116	79.	177.086	10406.	43.	922273.749	960.351	63.7	72.	88.	102.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	116	23.	45.302	2658.	0.	59963.569	244.875	11.	19.	27.	33.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	116	57.5	131.828	7748.	15.	513258.77	716.421	39.4	49.	67.75	80.3
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/26/94-04/26/94	2	58.	58.	59.	57.	2.	1.414	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	116	3.	8.836	126.	0.5	246.447	15.699	1.5	2.	9.	20.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	115	2.5	3.043	20.	0.	8.669	2.944	1.	1.5	3.	6.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	115	2.5	6.652	106.	0.	176.141	13.272	0.5	1.5	6.	14.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	121 ##		0.094	0.88	0.02	0.018	0.134	0.02	0.02	0.095	0.24
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	122 ##	0.005	0.01	0.08	0.005	0.	0.01	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	122	0.11	0.153	0.52	0.02	0.02	0.141	0.02	0.02	0.26	0.38
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	120	0.4	0.414	2.3	0.2	0.061	0.248	0.2	0.3	0.5	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	122	0.02	0.045	0.4	0.005	0.004	0.061	0.01	0.02	0.05	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	55	0.01	0.028	0.33	0.005	0.003	0.054	0.005	0.005	0.02	0.078

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Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/19/88-08/29/90	15	2.8	2.767	4.3	2.	0.461	0.679	2.	2.1	3.2	3.76
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	58	42.5	42.862	96.	22.	156.542	12.512	30.	34.	46.25	56.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/19/88-10/19/88	1#		25.	25.	25.	0.	0.	**	**	**	**
00940 00945	CHLORIDE, TOTAL IN WATER MG/L	04/27/89-10/24/96 04/27/89-10/24/96	32 32	5.	5.281 7.344	7. 9.	4.	0.725 1.33	0.851 1.153	4.	5.	6. 8.	6. 9.
00943	SULFATE, TOTAL (MG/L AS SO4) FLUORIDE, TOTAL (MG/L AS F)	04/27/89-10/24/96	12	0.11:		9. 0.29	0.025	0.007	0.083	6. 0.025	0.044	o. 0.13	9. 0.281
00951	SILICA. DISSOLVED (MG/L AS SI02)	04/27/89-08/29/90	12	6.65	35.817	368.	0.023	10950.814	104.646	0.023	5.2	7.175	260.72
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	83 #		3.566	27.	0.5	15.834	3.979	0.5	0.5	5.	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/12/84-10/29/96	8#		5.813	24.	2.5	54.781	7.401	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/18/88-10/19/93	6#		4.5	5.	2.	1.5	1.225	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	09/14/93-10/29/96	2 ##		2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	83 ##		2.584	5.	0.1	4.259	2.064	0.5	0.5	5.	5.
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/12/84-10/29/96	8#		1.169	2.5	0.15	1.234	1.111	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/12/84-10/29/96	8	65.	61.738	74.	41.9	131.923	11.486				
01034 01042	CHROMIUM, TOTAL (UG/L AS CR) COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94 05/10/84-10/06/94	83 ## 83 ##		10.536 11.102	65. 41.	0.5 2.5	166.938 101.145	12.92 10.057	0.5 5.	2.5 5.	25. 25.	25. 25.
01042	COPPER, TOTAL (OG/E AS CO) COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/12/84-10/29/96	8	⁺ 34.4	32.35	36.		18.694	4.324	J. **	J. **	23. **	23. **
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	78	175.	710.077	6000.	25. 25.	1633971.604	1278.269	50.	86.75	652.5	2741.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	82 #		5.951	70.	0.5	87.028	9.329	0.65	2.	5.	7.1
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/12/84-10/29/96	8	22.5	22.863	36.	13.	59.351	7.704	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/17/89-10/29/96	5	650.	739.2	1150.	510.	59891.2	244.727	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/84-10/06/94	80	25.45	120.839	900.	5.	39720.187	199.299	10.	20.	117.5	406.
01059	THALLIUM, TOTAL (UG/L AS TL)	08/18/88-10/19/93	6#		8.75	10.	2.5	9.375	3.062	**	**	25	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	83 ## 7		17.97	50.	2.5 20.	237.862	15.423	5. **	5.	25. **	50.
01068 01078	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT) SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/12/84-06/30/94 09/14/93-06/30/94	1#	26. # 2.5	27.057 2.5	35.4 2.5	20. 2.5	26.423 0.	5.14 0.	**	**	**	**
01078	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	83 #		29.645	780.	2.5	7912.942	88.955	5.	5.	25.	30.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/12/84-10/29/96	8	120.5	121.125	152.	94.	414.411	20.357	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/94-10/29/96	2 ##		17.	25.	9.	128.	11.314	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGŤ)	10/29/96-10/29/96	1	48300.	48300.	48300.	48300.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	77 #		4.292	23.	0.5	17.371	4.168	0.5	0.5	5.	10.
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/12/84-10/29/96	9 #		3.067	8.	0.5	7.728	2.78	0.5	0.5	5.55	8.
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/94-10/29/96		54950.	54950.	67600.	42300. 32		17889.802	**	**	**	**
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/28/90-10/24/96	19 # 19 #		57.895 1.747	100.	50.	350.877 0.013	18.732	50.	50.	50.	100.
31616 31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/28/90-10/24/96 GEOMETRIC MEAN		4 1.699	55.783	2.	1.699	0.013	0.113	1.699	1.699	1.699	2.
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/26/90-10/03/90	4	5.455		7.9	2.3	6.86	2.619	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/26/90-10/03/90	4	4.00		8.2	2.6	5.985	2.446	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/28/90-10/03/90	3	0.32	1.54	4.	0.3	4.539	2.13	**	**	**	**
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/26/90-10/03/90	4	1.295	5 1.335	1.5	1.25	0.013	0.112	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	09/14/87-09/14/87	1 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
34351	ENDOSULFAN SULFATE TOTWUG/L	09/14/87-09/14/87	1#		0.05	0.05	0.05	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	09/14/87-09/14/87	1#		0.05	0.05	0.05	0.	0.	**	**	**	**
34361 34366	ENDOSULFAN, ALPHA TOTWUG/L ENDRIN ALDEHYDE TOTWUG/L	09/14/87-09/14/87 09/14/87-09/14/87	1 ## 1 ##		0.05 0.05	0.05 0.05	0.05 0.05	0. 0.	0. 0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	09/14/93-10/29/96	2 ##		2.5	2.5	2.5	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	09/14/87-09/14/87	1#		0.05	0.05	0.05	0.	0.	**	**	**	**
38442	DICAMBA (BANVEL) WATER, DISSUG/L	09/14/87-09/14/87	1 ##		0.1	0.1	0.1	0.	0.	**	**	**	**
38451	DICHLORPROP WATER,SUSPUG/L	09/14/87-09/14/87	1 ##		0.1	0.1	0.1	0.	0.	**	**	**	**
38745	2,4-DB WATER, TOTUG/L	09/14/87-09/14/87	1 ##		0.1	0.1	0.1	0.	0.	**	**	**	**
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	1 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/18/88-10/29/96	3 #		33.335	75.	0.005	1458.167	38.186	**	**	**	**
39300 39310	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87 09/14/87-09/14/87	1 ## 1 ##		0.05 0.05	0.05 0.05	0.05 0.05	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L) P.P' DDE IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##		0.05	0.05	0.05	0. 0.	0. 0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1#		0.05	0.05	0.05	0. 0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/14/93-10/29/96	2 ##		40.	50.	30.	200.	14.142	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	09/14/87-09/14/87	1#	# 0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	09/14/87-09/14/87	1 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/14/87-09/14/87	1 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG	08/18/88-10/29/96	3 ##		96.833	250.	0.5	17985.083	134.108	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	3 ##		21.683	50.	0.05	657.251	25.637	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	3 ##	[‡] 15.	21.683	50.	0.05	657.251	25.637	-yP	T	-c T	ጥጥ

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0007

Paramete	er e e e e e e e e e e e e e e e e e e	Period of Record	Obs Me	edian	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	3 ##	30.	26.683	50.	0.05	632.001	25.14	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/18/88-10/29/96	3 ##	15.	21.683	50.	0.05	657.251	25.637	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/18/88-10/29/96	3 ##	30.	26.683	50.	0.05	632.001	25.14	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRÁM DRY SOL.)	08/18/88-10/29/96	3 ## 1	60.	220.167	500.	0.5	65090.083	255.128	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRÝ SOLIDS)	08/18/88-10/29/96	3 ##	15.	21.683	50.	0.05	657.251	25.637	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	09/14/87-09/14/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39526	PCBS TOTAL, IN SEDIMENT, DRY (ISOMER ANALYSES) UG/KG	08/18/88-10/29/96	3 ##	30.	93.5	250.	0.5	18586.75	136.333	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/14/87-09/14/87	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLÈ (UG/L)	09/14/87-09/14/87	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L ÁS CACO3)	09/14/93-10/06/94	9	51.	50.333	61.	40.	57.	7.55	40.	42.5	56.5	61.
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/13/91-10/24/96	23 ##	0.005	0.011	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.026
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	88 ##	0.15	0.155	0.4	0.05	0.002	0.042	0.15	0.15	0.15	0.15
71921	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/12/84-10/29/96	8 ##	0.15	0.156	0.25	0.05	0.006	0.078	**	**	**	**
75045	HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG	09/14/93-10/29/96	2 ##	32.5	32.5	50.	15.	612.5	24.749	**	**	**	**
77825	ALACHLOR WHOLE WATER, UG/L	09/14/87-09/14/87	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	09/14/93-10/29/96	2 ##	62.5	62.5	75.	50.	312.5	17.678	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	10/05/92-10/05/92	3 107	700.	10600.	10700.	10400.	30000.	173.205	**	**	**	**
82078	TURBIDITY, FIELD NEPHÈLOMETRIC TURBIDITY UNITS, NTU	09/14/93-10/19/93	5	2.4	7.14	25.	1.7	100.738	10.037	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BOWA0007

				Total	Exceed	Prop.		-8/01-10/14-			-10/15-4/30-			5/01-7/31			n/a	
Paramete	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	18	0	$0.0\bar{0}$	3	0	0.00	12	0	0.00	3	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	15	0	0.00	4	0	0.00	5	0	0.00	6	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	23	7	0.30	8	2	0.25	8	1	0.13	7	4	0.57			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	104	35	0.34	30	18	0.60	29	2	0.07	45	15	0.33			
00400	PH	Other-Hi Lim.	9.	137	2	0.01	43	1	0.02	41	0	0.00	53	1	0.02			
		Other-Lo Lim.	6.5	137	14	0.10	43	5	0.12	41	5	0.12	53	4	0.08			
00403	PH, LAB	Other-Hi Lim.	9.	118	0	0.00	37	0	0.00	38	0	0.00	43	0	0.00			
		Other-Lo Lim.	6.5	118	10	0.08	37	6	0.16	38	2	0.05	43	2	0.05			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	122	0	0.00	40	0	0.00	37	0	0.00	45	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	122	0	0.00	40	0	0.00	37	0	0.00	45	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	32	0	0.00	12	0	0.00	11	0	0.00	9	0	0.00			
		Drinking Water	250.	32	0	0.00	12	0	0.00	11	0	0.00	9	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	32	0	0.00	12	0	0.00	11	0	0.00	9	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	12	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	83	0	0.00	32	0	0.00	22	0	0.00	29	0	0.00			
		Drinking Water	50.	83	0	0.00	32	0	0.00	22	0	0.00	29	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	6	0	0.00	3	0	0.00	3	0	0.00						
		Drinking Water	4.	1 &		0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	49 &	0	0.00	18	0	0.00	16	0	0.00	15	0	0.00			
		Drinking Water	5.	49 &	0	0.00	18	0	0.00	16	0	0.00	15	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	83	0	0.00	32	0	0.00	22	0	0.00	29	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	65 &	5	0.08	26	1	0.04	13	1	0.08	26	3	0.12			
		Drinking Water	1300.	83	0	0.00	32	0	0.00	22	0	0.00	29	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	82	0	0.00	31	0	0.00	22	0	0.00	29	0	0.00			
		Drinking Water	15.	82	5	0.06	31	1	0.03	22	1	0.05	29	3	0.10			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BOWA0007

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				Total	Exceed	Prop.		-8/01-10/14			-10/15-4/30			5/01-7/31-			n/a	
Paramete	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01059	THALLIUM, TOTAL	Fresh Acute	1400.	6	0	0.00	3	0	0.00	3	0	0.00						
	,	Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	83	0	0.00	32	0	0.00	22	0	0.00	29	0	0.00			
	,	Drinking Water	100.	83	0	0.00	32 32	0	0.00	22	0	0.00	29	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	83	5	0.06	32	2	0.06	22	0	0.00	29	3	0.10			
		Drinking Water	5000.	83	0	0.00	32	0	0.00	22	0	0.00	29	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	77	1	0.01	29	0	0.00	22	1	0.05	26	0	0.00			
		Drinking Water	50.	77	0	0.00	29	0	0.00	22	0	0.00	26	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	19	0	0.00	8	0	0.00	5	0	0.00	6	0	0.00			
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	1	0	0.00	1	0	0.00									
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	THE PART OF THE PA	Drinking Water	3.	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.4	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	• • • • • • • • • • • • • • • • • • • •	Drinking Water	0.2	l	0	0.00	ļ	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	l	0	0.00	ļ	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	l	0	0.00	1	0	0.00				• •					
71900	MERCURY, TOTAL	Fresh Acute	2.4	88	0	0.00	35	0	0.00	25	0	0.00	28	0	0.00			
02070	THE DESIGNATION OF THE PARTY OF	Drinking Water	2.	88	0	0.00	35	0	0.00	25	0	0.00	28	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	5	0	0.00	2	0	0.00	3	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1984 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	21	16.5	16.252	28.	7.1	38.211	6.181	7.64	10.	18.	28.
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	21	6.6	5.548	11.1	0.	16.129	4.016	0.02	1.	9.2	10.88
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	22	7.4	7.382	8.4	6.5	0.316	0.562	6.56	6.9	7.75	8.31
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	22	7.389	7.084	8.4	6.5	0.409	0.639	6.56	6.9	7.75	8.31
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	22	0.041	0.082	0.316	0.004	0.009	0.095	0.005	0.018	0.126	0.281
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	12	6.7	6.725	7.6	6.2	0.189	0.435	6.23	6.325	7.075	7.45
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	12	6.655	6.563	7.6	6.2	0.218	0.467	6.23	6.325	7.075	7.45
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.221	0.273	0.631	0.025	0.043	0.208	0.041	0.085	0.475	0.592
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	12	36.	37.083	49.	26.	79.902	8.939	26.3	28.5	47.25	49.
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	12	79.	82.583	126.	56.	296.992	17.233	58.7	76.	91.25	116.1
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	12	24.	25.25	38.	15.	40.205	6.341	16.2	21.25	28.5	36.8
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	12	55.	57.333	99.	37.	250.242	15.819	37.9	50.5	63.75	89.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	5.	9.417	46.	2.5	150.72	12.277	2.5	2.5	10.5	37.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	4.	5.	10.	2.5	8.273	2.876	2.5	2.5	8.25	9.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	2.25	5.25	37.	0.	108.477	10.415	0.	0.25	2.5	29.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	12 ##		0.133	0.7	0.05	0.034	0.184	0.05	0.05	0.1	0.55
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12 ##		0.012	0.04	0.005	0.	0.011	0.005	0.005	0.018	0.034
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.17	0.246	0.5	0.05	0.031	0.175	0.056	0.095	0.453	0.497
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	12	0.3	0.35	1.	0.2	0.052	0.228	0.2	0.2	0.4	0.85
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	12	0.01	0.019	0.07	0.005	0.	0.019	0.005	0.006	0.02	0.061
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	12	0.01	0.015	0.07	0.005	0.	0.018	0.005	0.005	0.018	0.055
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	12 ##		0.542	1.	0.5	0.021	0.144	0.5	0.5	0.5	0.85
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	12 ##	0.5	0.875	5.	0.5	1.688	1.299	0.5	0.5	0.5	3.65
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	12	1.	0.958	2.	0.5	0.294	0.542	0.5	0.5	1.	2.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	12 ##		5.833	10.	5.	3.788	1.946	5.	5.	5.	10.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	12	275.	875.	6000.	70.	2752081.818	1658.94	73.	112.5	912.5	4578.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	12 ##		2.	8.	1.	4.909	2.216	1.	1.	1.75	7.1
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	12	20.	26.667	50.	10.	224.242	14.975	10.	20.	45.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	12 ##		7.083	10.	5.	6.629	2.575	5.	5.	10.	10.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	12 ##		0.542	1.	0.5	0.021	0.144	0.5	0.5	0.5	0.85
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	12 ##	0.15	0.171	0.4	0.15	0.005	0.072	0.15	0.15	0.15	0.325

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	7	10.8	13.171	23.5	7.	40.839	6.391	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	7	8.	7.5	10.4	2.4	10.05	3.17	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	9	6.9	7.082	8.3	6.42	0.522	0.723	6.42	6.485	7.85	8.3
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	9	6.9	6.748	8.3	6.42	0.648	0.805	6.42	6.485	7.85	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	9	0.126	0.179	0.38	0.005	0.024	0.155	0.005	0.014	0.331	0.38
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	6	7.3	7.383	8.	6.9	0.226	0.475	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	6	7.204	7.202	8.	6.9	0.265	0.515	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	6	0.063	0.063	0.126	0.01	0.003	0.051	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	6	45.	45.333	51.	40.	15.067	3.882	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	6	88.5	200.	772.	79.	78558.4	280.283	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	6	26.5	25.	30.	15.	30.	5.477	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	6	62.5	175.	743.	53.	77461.2	278.319	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	6 ##	2.5	2.583	5.	1.	1.742	1.32	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	6 ##	2.5	2.583	5.	1.	1.742	1.32	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	6 ##	0.05	0.067	0.1	0.05	0.001	0.026	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	6 ##	0.005	0.009	0.03	0.005	0.	0.01	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	6	0.225	0.213	0.31	0.11	0.007	0.085	**	**	**	**
00625	NITROGEN, KJELDAĤL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	6	0.4	0.367	0.5	0.2	0.011	0.103	**	**	**	**
00665	PHOSPHORUS. TOTAL (MG/L AS P)	05/10/84-10/24/96	6	0.02	0.022	0.03	0.01	0.	0.008	**	**	**	**

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Annual Analysis for 1985 - Station BOWA0007

Paramete	er e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	n Variance	Std. Dev.	10th	25th	75th	90th
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	6 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	4 ##	0.5	7.125	27.	0.5	175.563	13.25	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	4 ##	0.5	0.4	0.5	0.1	0.04	0.2	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	4 ##	0.75	13.25	51.	0.5	633.417	25.168	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	4 ##	5.	14.	41.	5.	324.	18.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	3 ##	50.	1833.333	5400.	50.	9540833.333	3088.824	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	4	3.5	11.625	39.	0.5	336.563	18.346	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	4 ##	50.	45.25	50.	31.	90.25	9.5	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	4 ##	7.5	44.5	158.	5.	5731.	75.703	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	7 ##	0.15	0.136	0.15	0.05	0.001	0.038	**	**	**	**

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Annual Analysis for 1986 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	14	16.05	15.621	26.3	5.	35.963	5.997	5.45	12.625	18.125	25.75
00300	OXYGEN, DISSOLVED MĞ/L	05/10/84-04/26/94	13	6.2	6.115	13.6	0.	18.968	4.355	0.08	1.6	9.2	12.88
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	14	7.4	7.343	8.9	6.3	0.449	0.67	6.3	7.075	7.55	8.5
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	14	7.4	6.941	8.9	6.3	0.623	0.789	6.3	7.075	7.55	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	14	0.04	0.115	0.501	0.001	0.029	0.17	0.005	0.029	0.097	0.501
00403	PH, LAB, ŠTANDARD UNITS SU	05/10/84-10/24/96	12	7.15	7.125	8.5	6.5	0.358	0.599	6.5	6.6	7.45	8.26
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	12	7.147	6.866	8.5	6.5	0.431	0.657	6.5	6.6	7.45	8.26
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.071	0.136	0.316	0.003	0.015	0.121	0.008	0.036	0.251	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	12	49.	46.083	59.	4.	217.174	14.737	14.2	43.5	54.	59.
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	11	86.	1023.182	10406.	74.	9684182.164	3111.942	74.4	78.	95.	8345.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	11	10.	252.636	2658.	0.	636539.455	797.834	0.6	3.	24.	2133.2
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	11	75.	770.545	7748.	59.	5355469.273	2314.189	59.4	64.	77.	6218.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	11 ##	2.5	3.682	12.	2.5	8.714	2.952	2.5	2.5	2.5	10.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	11 ##		2.773	5.	2.5	0.568	0.754	2.5	2.5	2.5	4.6
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	11 ##	2.5	2.955	7.	2.5	1.823	1.35	2.5	2.5	2.5	6.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	12 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.009	0.01
00620	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	05/10/84-10/24/96	12	0.255	0.205	0.35	0.025	0.015	0.124	0.03	0.078	0.308	0.347
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	12	0.3	0.267	0.4	0.2	0.004	0.065	0.2	0.2	0.3	0.37
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	12	0.015	0.015	0.03	0.005	0.	0.008	0.005	0.01	0.02	0.027
00671	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	12 ##	0.005	0.014	0.1	0.005	0.001	0.027	0.005	0.005	0.01	0.073
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	5 ##	0.5	5.2	24.	0.5	110.45	10.51	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	5 ##		0.42	0.5	0.1	0.032	0.179	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	5 ##	0.5	11.4	55.	0.5	594.05	24.373	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	5 ##	5.	13.2	41.	5.	246.2	15.691	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	4 ##		100.	200.	50.	5000.	70.711	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	5 ##	0.5	7.5	35.	0.5	236.375	15.374	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	5 ##	50.	44.8	50.	24.	135.2	11.628	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	5	10.	37.4	132.	5.	2888.8	53.748	**	**	**	**
01147	SELEŃIUM, TÒTAL (UG/L ÁS SE)	05/10/84-10/06/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	5 ##	0.15	0.13	0.15	0.05	0.002	0.045	**	**	**	**

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Annual Analysis for 1987 - Station BOWA0007

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	16	15.15	15.931	28.9	10.9	24.812	4.981	11.39	12.1	17.35	26.8
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	16	6.2	5.363	9.9	0.1	11.799	3.435	0.17	1.325	8.35	9.55
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	16	6.95	6.985	8.65	6.23	0.307	0.554	6.23	6.7	7.158	7.775
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	16	6.95	6.762	8.65	6.23	0.36	0.6	6.23	6.7	7.157	7.775
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	16	0.112	0.173	0.589	0.002	0.031	0.175	0.029	0.07	0.2	0.589
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	12	6.8	6.883	7.4	6.4	0.087	0.295	6.43	6.725	7.075	7.37
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	12	6.8	6.797	7.4	6.4	0.095	0.309	6.43	6.725	7.075	7.37
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.158	0.16	0.398	0.04	0.011	0.106	0.043	0.085	0.189	0.374
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	12	26.	24.75	35.	9.	60.386	7.771	10.2	21.25	30.75	34.1
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	12	76.5	85.417	159.	43.	1442.629	37.982	44.5	57.75	108.75	156.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	12	26.	26.583	50.	18.	73.538	8.575	18.3	20.	29.5	44.3
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	12	54.	59.333	132.	15.	1454.061	38.132	17.7	29.	88.	128.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	10.	21.625	72.	2.5	523.551	22.881	2.5	3.375	41.75	64.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	2.5	4.5	12.	0.	17.273	4.156	0.	0.625	8.	11.4
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	8.	17.75	60.	2.5	375.932	19.389	2.5	2.5	34.75	54.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	11	0.1	0.159	0.5	0.05	0.022	0.15	0.05	0.05	0.3	0.46
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.01	0.019	0.08	0.005	0.	0.022	0.005	0.006	0.02	0.068
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.16	0.178	0.46	0.025	0.024	0.154	0.025	0.025	0.255	0.457
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	12	0.4	0.383	0.7	0.2	0.016	0.127	0.23	0.3	0.4	0.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	12	0.1	0.122	0.3	0.04	0.006	0.075	0.043	0.078	0.175	0.27
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	12	0.05	0.083	0.33	0.005	0.009	0.095	0.01	0.02	0.09	0.294
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	9	32.	31.778	40.	22.	31.444	5.608	22.	28.	36.	40.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	5 ##		1.1	3.	0.5	1.175	1.084	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	5 ##		0.46	0.5	0.3	0.008	0.089	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	5 ##		16.1	65.	0.5	751.05	27.405	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	5 ##		14.4	37.	5.	201.8	14.206	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	4	350.	527.5	1200.	210.	212025.	460.462	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	5	1.	6.	23.	0.5	93.875	9.689	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	5 ##		20.2	50.	5.	392.7	19.817	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	5	20.	42.	140.	10.	3070.	55.408	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	4 ##		0.625	1.	0.5	0.063	0.25	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	5 ##	¢ 0.15	0.14	0.15	0.1	0.	0.022	**	**	**	**

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Annual Analysis for 1988 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	13	16.1	16.231	30.6	7.5	44.967	6.706	7.5	12.2	17.5	29.36
00094	SPECIFIC CONDUCTANCÈ, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	4	135.	131.25	150.	105.	452.25	21.266	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	13	6.7	6.538	10.3	0.2	9.273	3.045	1.48	4.3	8.95	10.3
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	13	7.1	7.415	8.5	6.8	0.549	0.741	6.8	6.8	8.425	8.48
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	13	7.1	7.067	8.5	6.8	0.68	0.825	6.8	6.8	8.425	8.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	13	0.079	0.086	0.158	0.003	0.005	0.069	0.003	0.004	0.158	0.158
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	10	7.2	7.27	7.7	6.9	0.067	0.258	6.92	7.1	7.525	7.69
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	10	7.189	7.207	7.7	6.9	0.071	0.267	6.92	7.1	7.525	7.69
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	10	0.065	0.062	0.126	0.02	0.001	0.033	0.02	0.03	0.079	0.121
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	10	41.5	43.9	53.	38.	27.211	5.216	38.1	40.5	47.5	52.9
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	9	77.	80.111	94.	72.	64.111	8.007	72.	73.5	87.	94.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	9	16.	16.	33.	4.	98.5	9.925	4.	6.	24.5	33.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	9	66.	64.	80.	49.	124.5	11.158	49.	53.	73.	80.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	10	2.5	5.3	20.	1.	36.789	6.065	1.	1.75	9.25	19.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	10	2.5	3.4	15.	1.	17.044	4.128	1.	1.75	2.625	13.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	9 ##	2.5	2.833	8.	0.5	6.688	2.586	0.5	0.5	4.25	8.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	10	0.05	0.057	0.13	0.02	0.002	0.041	0.02	0.02	0.09	0.129
00615	NITRITE NÍTROGEN, TÓTAL (MĞ/L AS N)	05/10/84-10/24/96	10 ##	0.005	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.019
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	10	0.12	0.117	0.33	0.02	0.009	0.093	0.02	0.035	0.163	0.314

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	10	0.25	0.25	0.3	0.2	0.003	0.053	0.2	0.2	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	10	0.015	0.024	0.06	0.01	0.	0.018	0.01	0.01	0.035	0.059
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	10	0.01	0.011	0.02	0.005	0.	0.005	0.005	0.009	0.013	0.02
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	10	44.	47.7	82.	30.	186.233	13.647	31.	43.	49.25	79.4
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	9 ##	2.5	1.889	2.5	0.5	0.861	0.928	0.5	0.75	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	9 ##	1.5	1.167	1.5	0.5	0.25	0.5	0.5	0.5	1.5	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	9 ##	25.	18.333	25.	5.	100.	10.	5.	5.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	9 ##	25.	18.889	25.	5.	86.111	9.28	5.	7.5	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	9	110.	280.	870.	50.	112500.	335.41	50.	80.	565.	870.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	9 ##		5.111	15.	0.5	17.549	4.189	0.5	2.75	5.	15.
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	9 ##	25.	18.333	25.	5.	100.	10.	5.	5.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	9 ##	25.	18.333	25.	5.	100.	10.	5.	5.	25.	25.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	10 ##	2.5	2.25	4.	0.5	0.903	0.95	0.55	1.75	2.5	3.85
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	9 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BOWA0007

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	12	19.45	18.558	26.2	9.1	26.599	5.157	9.79	14.95	20.825	26.2
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	15	101.	107.867	138.	84.	234.267	15.306	88.8	96.	118.	132.6
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	9	5.3	5.711	10.2	0.2	13.306	3.648	0.2	2.55	9.5	10.2
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	12	7.445	7.438	8.4	6.7	0.432	0.657	6.7	6.8	8.125	8.37
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	12	7.418	7.093	8.4	6.7	0.561	0.749	6.7	6.8	8.125	8.37
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.038	0.081	0.2	0.004	0.007	0.081	0.004	0.008	0.158	0.2
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	12	7.45	7.35	8.1	6.9	0.145	0.38	6.9	6.95	7.5	8.01
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	12	7.447	7.218	8.1	6.9	0.164	0.404	6.9	6.95	7.5	8.01
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.036	0.061	0.126	0.008	0.002	0.045	0.01	0.032	0.114	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	12	38.5	39.583	51.	32.	42.811	6.543	32.3	33.5	44.5	50.7
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	12	74.	84.667	205.	60.	1479.515	38.464	62.7	70.	81.	169.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	12	23.	22.5	33.	13.	34.091	5.839	13.	19.	26.75	31.2
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	12	53.	62.167	179.	42.	1381.061	37.163	43.5	47.25	57.25	143.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	4.	14.	126.	0.5	1253.773	35.409	0.5	1.25	7.25	91.5
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	3.	3.833	20.	0.5	27.379	5.232	0.5	1.25	3.75	15.2
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	12 ##		10.333	106.	0.5	912.652	30.21	0.5	0.5	3.25	76.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.06	0.126	0.88	0.02	0.058	0.241	0.02	0.02	0.09	0.661
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12 ##		0.01	0.03	0.005	0.	0.009	0.005	0.005	0.018	0.027
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.075	0.083	0.22	0.02	0.005	0.068	0.02	0.02	0.14	0.202
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	11	0.4	0.591	2.3	0.2	0.347	0.589	0.22	0.3	0.6	1.98
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	12	0.02	0.051	0.34	0.01	0.008	0.092	0.01	0.02	0.038	0.253
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	14	44.	48.357	96.	36.	218.709	14.789	37.	41.25	51.75	75.5
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	8 ##		2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	8 ##		1.5	1.5	1.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	8 ##		25.	25.	25.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	8 ##		25.	25.	25.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	6	135.	165.833	440.	25.	21384.167	146.233	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	8 ##		5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	8 ##		25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	8 ##		25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	8 ##		2.5	2.5	2.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	11 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	11	19.1	19.136	28.3	10.7	30.403	5.514	10.98	14.	21.2	28.08
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	11	96.	97.091	130.	70.	438.091	20.931	70.	80.	120.	128.6
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	9	4.	4.8	10.3	0.	17.655	4.202	0.	0.1	8.75	10.3
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	12	7.5	7.413	8.6	6.04	0.625	0.79	6.07	7.023	8.048	8.54
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	12	7.5	6.779	8.6	6.04	1.064	1.032	6.07	7.023	8.047	8.54
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.032	0.166	0.912	0.003	0.095	0.309	0.003	0.01	0.095	0.856
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	12	7.1	7.083	7.6	6.6	0.114	0.338	6.63	6.8	7.35	7.6
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	12	7.089	6.974	7.6	6.6	0.127	0.357	6.63	6.8	7.35	7.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	12	0.082	0.106	0.251	0.025	0.005	0.073	0.025	0.046	0.158	0.236
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	12	34.5	30.583	54.	3.	325.356	18.038	3.	9.75	44.75	52.2
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	12	76.5	82.583	127.	67.	407.72	20.192	67.9	70.	82.25	125.5
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	12	24.	28.583	62.	12.	220.992	14.866	12.6	20.	39.25	57.8
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	12	49.	54.	102.	16.	616.182	24.823	20.2	41.25	59.5	101.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	4.	9.958	37.	0.5	155.203	12.458	0.65	2.	13.75	35.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	1.	2.	9.	0.5	5.727	2.393	0.5	0.5	2.75	7.2
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	12	3.5	8.417	31.	0.5	112.22	10.593	0.5	1.	11.5	30.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.055	0.114	0.4	0.02	0.017	0.131	0.02	0.02	0.21	0.373
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12 ##		0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	12	0.085	0.136	0.38	0.02	0.018	0.134	0.02	0.02	0.265	0.365
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	12	0.45	0.475	0.7	0.3	0.027	0.166	0.3	0.3	0.675	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	12	0.035	0.04	0.11	0.01	0.001	0.029	0.01	0.02	0.048	0.101
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	9	48.	46.222	70.	31.	185.194	13.609	31.	33.	57.5	70.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	12 ##		4.125	5.	1.5	2.506	1.583	1.5	2.375	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	12##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	12	145.	868.667	4500.	44.	2153123.152	1467.352	45.8	57.5	1295.	4083.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	11##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	12 ##		71.458	780.	2.5	49844.839	223.26	2.5	3.125	8.75	555.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	12 ##		4.375	5.	2.5	1.278	1.131	2.5	3.125	5.	5.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	12 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	3	16.9	20.2	28.7	15.	55.09	7.422	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	6	111.	114.5	153.	70.	1147.1	33.869	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	3	0.5	3.133	8.6	0.3	22,423	4.735	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	3	6.5	6.9	8.1	6.1	1.12	1.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	3	6.5	6.428	8.1	6.1	1.453	1.206	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	3	0.316	0.373	0.794	0.008	0.157	0.396	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	5	6.9	7.06	7.4	6.8	0.098	0.313	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	5	6.9	6.981	7.4	6.8	0.106	0.325	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	5	0.126	0.104	0.158	0.04	0.004	0.061	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	5	37.	38.8	46.	31.	37.7	6.14	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	5	80.	82.6	102.	72.	138.8	11.781	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	5	23.	23.8	28.	20.	10.2	3.194	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	5	55.	58.8	74.	50.	87.7	9.365	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	5	4.	8.8	26.	3.	96.7	9.834	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	5	2.	2.6	6.	1.	3.8	1.949	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	5	2.	6.2	20.	1.	63.2	7.95	**	**	**	**
00610	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	9	0.06	0.112	0.54	0.02	0.028	0.168	0.02	0.02	0.135	0.54
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	9 ##	# 0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.008	0.01
00620	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	05/10/84-10/24/96	9 ##	# 0.02	0.092	0.43	0.02	0.018	0.134	0.02	0.02	0.11	0.43

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	9	0.4	0.467	0.9	0.3	0.03	0.173	0.3	0.4	0.5	0.9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	9	0.02	0.031	0.08	0.01	0.	0.021	0.01	0.02	0.04	0.08
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	6	40.	40.167	50.	31.	42.567	6.524	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	6 ##	5.	7.5	20.	5.	37.5	6.124	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	6	137.5	865.	4100.	55. 2	561620.	1600.506	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKÉL, TOTAL (UG/L AS ŃI)	05/10/84-10/06/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TÓTAL (UĞ/L AS ZN)	05/10/84-10/06/94	6	10.	36.667	170.	5.	4296.667	65.549	**	**	**	**
01147	SELENIUM, TOTAL (UG/L ÁS SE)	05/10/84-10/06/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	6 ##	0.225	0.225	0.3	0.15	0.007	0.082	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	9	16.4	17.989	26.4	12.1	20.759	4.556	12.1	14.65	21.25	26.4
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	9	95.	98.222	170.	60.	933.694	30.556	60.	81.	102.5	170.
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	6	1.4	3.35	9.5	0.2	15.139	3.891	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	9	8.1	7.956	9.5	6.	1.084	1.041	6.	7.35	8.68	9.5
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	9	8.1	6.9	9.5	6.	2.338	1.529	6.	7.35	8.68	9.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	9	0.008	0.126	1.	0.	0.108	0.328	0.	0.004	0.047	1.
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	8	7.35	7.525	8.7	7.1	0.274	0.523	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	8	7.347	7.365	8.7	7.1	0.303	0.55	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	8	0.045	0.043	0.079	0.002	0.001	0.026	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	8	38.5	37.	43.	29.	28.857	5.372	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	8	80.	79.125	98.	65.	124.982	11.18	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	8	20.5	20.625	25.	17.	7.696	2.774	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	8	58.5	58.5	78.	44.	144.857	12.036	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	8	5.	7.563	17.	1.5	37.103	6.091	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	8	2.5	2.688	5.	1.5	1.21	1.1	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	8	2.5	5.063	14.	1.	28.888	5.375	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	9 #		0.083	0.4	0.02	0.017	0.131	0.02	0.02	0.115	0.4
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	9 #		0.011	0.03	0.005	0.	0.009	0.005	0.005	0.015	0.03
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	05/10/84-10/24/96	9 #		0.116	0.49	0.02	0.027	0.165	0.02	0.02	0.215	0.49
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	9	0.6	0.611	1.1	0.3	0.056	0.237	0.3	0.45	0.75	1.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	9	0.04	0.064	0.18	0.01	0.004	0.059	0.01	0.02	0.11	0.18
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	6	42.5	40.333	44.	34.	21.867	4.676	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	9 #	¥ 5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	9 #		5.	5.	5.	0.	0.	5.	5.	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	9 #	¥ 5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	9 #	¥ 5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	9	240.	1237.778	3800.	70. 2	557819.444	1599.318	70.	140.	3100.	3800.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	9 #	¥ 5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01067	NICKÉL, TOTAL (UG/L AS ŃI)	05/10/84-10/06/94	9 #	¥ 5.	6.333	12.	5.	7.25	2.693	5.	5.	7.5	12.
01092	ZINC, TÓTAL (UĠ/L AS ZN)	05/10/84-10/06/94	9 #	¥ 5.	10.222	23.	5.	51.194	7.155	5.	5.	17.	23.
01147	SELENIUM, TOTAL (UG/L ÁS SE)	05/10/84-10/06/94	6#	[‡] 10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	9#	4 0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station BOWA0007

Paramete	г	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	11	18.	17.645	27.9	7.1	37.277	6.105	8.04	13.1	23.7	27.28
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	13	105.	96.538	140.	35.	1405.769	37.494	37.	60.	130.	138.
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	6	7.2	5.933	10.1	0.4	14.111	3.756	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	11	7.6	7.582	8.7	6.3	0.488	0.698	6.4	7.	8.1	8.64
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	11	7.6	7.087	8.7	6.3	0.757	0.87	6.4	7.	8.1	8.64
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	11	0.025	0.082	0.501	0.002	0.022	0.147	0.002	0.008	0.1	0.433
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	11	7.5	7.455	7.9	6.9	0.095	0.308	6.92	7.3	7.7	7.88
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	11	7.5	7.349	7.9	6.9	0.107	0.327	6.92	7.3	7.7	7.88
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	11	0.032	0.045	0.126	0.013	0.001	0.036	0.013	0.02	0.05	0.121
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	11	37.	41.	57.	25.	132.6	11.515	25.6	30.	50.	56.8
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	11	84.	80.091	108.	56.	302.691	17.398	56.6	63.	95.	106.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	11	21.	23.455	52.	9.	152.073	12.332	9.4	11.	29.	48.4
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	11	54.	56.636	81.	38.	187.255	13.684	38.8	47.	69.	79.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	11	3.	5.591	18.	1.5	33.541	5.791	1.5	1.5	7.	17.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	11 ##		2.	4.	1.	1.05	1.025	1.1	1.5	2.	4.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	11	1.5	4.409	14.	1.	19.641	4.432	1.1	1.5	7.	13.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	11	0.04	0.082	0.41	0.02	0.013	0.114	0.02	0.02	0.09	0.348
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	11 ##		0.009	0.03	0.005	0.	0.007	0.005	0.005	0.01	0.026
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	11	0.05	0.157	0.41	0.02	0.03	0.173	0.02	0.02	0.38	0.408
00625	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	05/10/84-10/24/96	11	0.4	0.418	0.8	0.3	0.022	0.147	0.3	0.3	0.5	0.74
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	11	0.02	0.036	0.08	0.01	0.001	0.022	0.012	0.02	0.05	0.076
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	3	0.01	0.017	0.03	0.01	0.	0.012	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	4	34.	36.75	50.	29.	84.25	9.179	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	9 ##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	9 ##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	9 ##		8.889	19.	5.	38.111	6.173	5.	5.	15.5	19.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	9 ##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	9	132.	604.222	2400.	54.	595785.444	771.871	54.	93.	924.	2400.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	9 ##		12.778	70.	5.	463.194	21.522	5.	5.	7.5	70.
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	9 ##	5.	6.778	15.	5.	13.444	3.667	5.	5.	8.	15.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	9	14.	18.444	43.	5.	188.528	13.731	5.	5.	31.	43.
01147	SELENIUM, TÔTAL (UG/L ÁS SE)	05/10/84-10/06/94	9 ##		11.444	23.	10.	18.778	4.333	10.	10.	10.	23.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	9 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	8	17.6	18.138	27.6	12.7	23.517	4.849	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	7	90.	95.	115.	80.	183.333	13.54	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	8	7.925	7.962	8.9	7.42	0.242	0.492	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	8	7.919	7.778	8.9	7.42	0.281	0.53	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	8	0.012	0.017	0.038	0.001	0.	0.014	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	9	7.	7.122	7.9	6.7	0.217	0.466	6.7	6.75	7.5	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	9	7.	6.969	7.9	6.7	0.243	0.493	6.7	6.75	7.5	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	9	0.1	0.107	0.2	0.013	0.005	0.07	0.013	0.046	0.179	0.2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	9	43.	40.333	51.	27.	63.75	7.984	27.	32.5	46.	51.
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	9	80.	77.	93.	51.	178.	13.342	51.	67.	87.5	93.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	9	23.	22.333	25.	12.	16.5	4.062	12.	22.	25.	25.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	9	58.	54.667	70.	29.	163.5	12.787	29.	47.	63.5	70.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	8 ##		2.188	7.	1.5	3.781	1.945	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	7 ##	1.5	1.714	3.	1.5	0.321	0.567	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	8 ##		1.813	4.	1.5	0.781	0.884	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	8 ##		0.07	0.28	0.02	0.008	0.089	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	8 ##	0.005	0.008	0.02	0.005	0.	0.005	**	**	**	**

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Annual Analysis for 1994 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	8 ##	0.02	0.145	0.52	0.02	0.036	0.189	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	7	0.5	0.486	0.8	0.3	0.031	0.177	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	8	0.03	0.08	0.4	0.02	0.017	0.131	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	4 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	4 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045	IRON, TÓTAL (UĜ/L AS FE)	05/10/84-10/06/94	4	251.5	292.25	577.	89.	51746.25	227.478	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	4 ##	3.75	4.75	9.	2.5	9.417	3.069	**	**	**	**
01067	NICKÉL, TOTAL (UG/L AS ŃI)	05/10/84-10/06/94	4 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UĞ/L AS ZN)	05/10/84-10/06/94	4 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	3 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	3	17.5	17.167	26.	8.	81.083	9.005	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	3	120.	113.333	120.	100.	133.333	11.547	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	3	8.44	8.44	8.48	8.4	0.002	0.04	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	3	8.44	8.439	8.48	8.4	0.002	0.04	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	3	0.004	0.004	0.004	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	3	7.4	7.233	7.4	6.9	0.083	0.289	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	3	7.4	7.164	7.4	6.9	0.09	0.301	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	3	0.04	0.069	0.126	0.04	0.002	0.05	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	3	44.	44.333	47.	42.	6.333	2.517	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	3	79.	80.	85.	76.	21.	4.583	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	3	23.	21.333	26.	15.	32.333	5.686	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	3	59.	58.667	61.	56.	6.333	2.517	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	3	10.	7.167	10.	1.5	24.083	4.907	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	3	7.	5.5	8.	1.5	12.25	3.5	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	3	0.05	0.06	0.11	0.02	0.002	0.046	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	05/10/84-10/24/96	3	0.15	0.143	0.26	0.02	0.014	0.12	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	3	0.3	0.333	0.5	0.2	0.023	0.153	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	3	0.02	0.02	0.03	0.01	0.	0.01	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	6	16.75	19.783	29.4	12.	51.194	7.155	**	**	**	**
00094	SPECIFIC CONDUCTANCÈ, FIELD (UMHOS/CM @, 25C)	08/18/88-10/24/96	5	110.	116.	160.	90.	730.	27.019	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	5	7.9	8.058	8.85	7.45	0.359	0.599	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	5	7.9	7.805	8.85	7.45	0.439	0.663	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	5	0.013	0.016	0.035	0.001	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	6	7.4	7.517	8.2	7.2	0.15	0.387	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	6	7.389	7.409	8.2	7.2	0.164	0.405	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	6	0.041	0.039	0.063	0.006	0.001	0.024	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	6	39.	39.167	43.	35.	7.767	2.787	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	6	81.	80.5	99.	58.	222.7	14.923	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	6	24.5	23.333	29.	15.	24.267	4.926	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	6	62.	57.167	70.	37.	160.167	12.656	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	6	3.5	8.5	26.	1.5	99.4	9.97	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	6 ##	1.5	2.167	4.	1.5	1.167	1.08	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	6 ##	1.5	6.667	22.	1.5	74.067	8.606	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	6 ##	0.02	0.035	0.08	0.02	0.001	0.025	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	6	0.01	0.01	0.02	0.005	0.	0.005	**	**	**	**
00620	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	05/10/84-10/24/96	6	0.13	0.148	0.3	0.02	0.013	0.113	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	05/10/84-10/24/96	6	0.3	0.35	0.5	0.2	0.015	0.122	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	6	0.02	0.037	0.09	0.02	0.001	0.029	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/01 to 10/14 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	42	19.05	20.193	30.6	13.8	19.074	4.367	15.59	17.	21.825	28.
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	27	102.	108.148	170.	80.	383.516	19.584	87.2	95.	120.	132.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	15	124.	116.6	146.	77.	408.686	20.216	86.	96.	130.	143.
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	30	3.2	4.01	9.6	0.	13.889	3.727	0.11	0.275	8.25	9.2
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	43	7.5	7.558	9.5	6.	0.614	0.784	6.23	7.2	8.1	8.58
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	43	7.5	6.913	9.5	6.	1.04	1.02	6.23	7.2	8.1	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	43	0.032	0.122	1.	0.	0.061	0.246	0.003	0.008	0.063	0.589
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	37	7.2	7.092	8.1	6.2	0.194	0.44	6.48	6.8	7.4	7.6
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	37	7.2	6.879	8.1	6.2	0.24	0.49	6.48	6.8	7.4	7.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	37	0.063	0.132	0.631	0.008	0.021	0.144	0.025	0.04	0.158	0.333
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	37	41.	41.919	59.	30.	67.632	8.224	31.8	34.5	49.	52.4
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	36	79.	371.25	10406.	43.	2960011.164	1720.468	59.4	70.25	92.5	126.3
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	36	22.5	96.611	2658.	3.	192902.016	439.206	12.7	19.25	27.75	41.6
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	36	55.5	274.639	7748.		1642134.409	1281.458	37.	47.25	68.	102.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	36	3.5	11.569	126.	0.5	516.145	22.719	1.35	1.625	7.75	35.6
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	36	2.25	2.917	20.	0.	12.607	3.551	0.35	1.5	3.	6.2
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	36	2.25	9.25	106.	0.	376.436	19.402	0.5	1.	6.75	32.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	40 ##		0.117	0.88	0.02	0.035	0.188	0.02	0.02	0.087	0.391
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	40 ##		0.008	0.03	0.005	0.	0.006	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	40 ##		0.064	0.31	0.02	0.007	0.083	0.02	0.02	0.09	0.24
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	40	0.4	0.455	2.3	0.2	0.121	0.348	0.2	0.3	0.5	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	40	0.02	0.046	0.34	0.005	0.004	0.06	0.01	0.02	0.048	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	13 ##		0.017	0.07	0.005	0.	0.02	0.005	0.005	0.02	0.062
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	22	42.5	42.909	70.	30.	87.515	9.355	32.6	35.75	45.	58.1
00940	CHLORIDE,TOTAL IN WATER MG/L	04/27/89-10/24/96	12	5.	5.167	6.	4.	0.697	0.835	4.	4.25	6.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	12	7.	7.	8.	4.	1.273	1.128	4.6	7.	8.	8.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	32 ##		3.172	5.	0.5	4.332	2.081	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	32 ##		2.65	5.	0.3	4.568	2.137	0.5	0.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	32 ##		9.781	65.	0.5	181.805	13.484	0.5	1.25	15.5	25.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	32 ##		10.063	37.	5.	85.609	9.253	5.	5.	10.	25.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	31	200.	990.581	6000.		2950758.118	1717.777	50.	100.	577.	4360.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	31 ##		4.355	23.	0.5	16.403	4.05	0.6	1.	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/84-10/06/94	32	57.5	176.944	900.	5.	58593.771	242.062	10.	20.	252.5	666.46
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	32 ##		21.688	50.	5.	307.254	17.529	5.	5.	30.75	50.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	32 ##		41.281	780.	5.	18760.273	136.968	5.	5.	25.	32.1
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	29 ##		4.379	10.	0.5	15.405	3.925	0.5	0.5	10.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	35 ##	¢ 0.15	0.149	0.15	0.1	0.	0.008	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0007

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Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	38	15.15	13.782	20.3	5.	17.996	4.242	7.09	10.85	17.5	18.54
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	20	112.	103.5	150.	35.	1167.316	34.166	40.	85.5	128.25	146.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	14	102.	103.143	141.	79.	363.209	19.058	80.5	86.75	113.5	138.5
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	29	7.9	7.755	13.6	2.4	6.253	2.501	4.5	6.	9.75	10.4
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	41	7.2	7.215	8.6	6.3	0.37	0.609	6.42	6.7	7.595	8.3
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	41	7.2	6.893	8.6	6.3	0.477	0.69	6.42	6.7	7.595	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	41	0.063	0.128	0.501	0.003	0.021	0.145	0.006	0.025	0.2	0.38
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	38	7.1	7.189	8.	6.4	0.156	0.394	6.6	6.975	7.5	7.71
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	38	7.1	7.025	8.	6.4	0.183	0.428	6.6	6.975	7.5	7.71
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	38	0.079	0.094	0.398	0.01	0.008	0.087	0.02	0.032	0.106	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	38	39.	35.263	57.	3.	252.091	15.877	3.9	27.75	47.25	53.1
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	38	81.	85.711	159.	51.	427.941	20.687	67.6	74.75	91.	108.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	38	23.	21.605	34.	3.	54.57	7.387	9.6	18.75	26.	30.1
00510	RESIDUE. TOTAL FIXED (MG/L)	05/10/84-10/24/96	38	60.5	64.105	132.	29.	404.043	20.101	44.7	52.	74.25	82.7

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0007

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	38	2.75	9.197	72.	0.5	222.642	14.921	1.	1.5	10.	22.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	37	2.	3.162	15.	0.5	10.89	3.3	1.	1.5	3.	8.4
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	37 ##	2.5	7.081	60.	0.5	150.59	12.272	0.5	1.5	7.	18.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	37 ##	0.05	0.076	0.5	0.02	0.008	0.09	0.02	0.02	0.09	0.128
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	37 ##	0.005	0.012	0.08	0.005	0.	0.014	0.005	0.005	0.01	0.022
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	37	0.16	0.194	0.52	0.02	0.015	0.124	0.036	0.11	0.265	0.38
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	35	0.3	0.331	0.7	0.2	0.011	0.105	0.2	0.3	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	37	0.02	0.054	0.4	0.005	0.007	0.081	0.01	0.02	0.055	0.12
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	18	0.01	0.051	0.33	0.005	0.008	0.087	0.005	0.005	0.06	0.222
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	18	41.	45.556	96.	29.	332.379	18.231	29.9	32.75	54.25	83.4
00940	CHLORIDE,TOTAL IN WATER MG/L	04/27/89-10/24/96	11	6.	5.727	7.	5.	0.418	0.647	5.	5.	6.	6.8
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	11	8.	8.	9.	7.	0.8	0.894	7.	7.	9.	9.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	22 ##	2.5	2.818	5.	0.5	2.442	1.563	0.5	2.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	22 ##	1.5	2.273	5.	0.5	3.065	1.751	0.5	1.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	22 ##	8.5	13.182	25.	0.5	116.751	10.805	0.5	2.5	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	22 ##	5.	13.523	25.	2.5	106.94	10.341	2.5	5.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	20	126.	476.2	2400.	50.	352400.8	593.634	50.4	92.5	837.5	1184.8
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	22 ##	5.	7.386	70.	0.5	197.713	14.061	1.	5.	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/84-10/06/94	20	25.	39.72	120.	5.	1204.653	34.708	10.44	21.25	52.5	116.91
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	22 ##	25.	19.432	50.	2.5	248.174	15.754	2.5	5.	25.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	22 ##	25.	19.159	43.	2.5	118.247	10.874	2.5	8.75	25.	30.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/84-10/06/94	22 ##	2.5	4.773	23.	0.5	28.755	5.362	0.5	2.5	10.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	25 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/84-10/24/96	54	15.05	16.878	29.4	7.1	43.279	6.579	9.8	12.1	22.975	27.75
00094	SPECIFIC CONDUCTANCE FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	26	100.	101.231	160.	60.	700.505	26.467	70.	83.75	120.	152.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	14	116.5	112.714	132.	86.	202.989	14.247	89.5	98.25	124.25	129.
00300	OXYGEN, DISSOLVED MG/L	05/10/84-04/26/94	45	5.5	5.371	11.1	0.	14.735	3.839	0.16	0.85	8.9	10.3
00400	PH (STANDARD UNITS)	05/10/84-10/24/96	53	7.4	7.537	9.22	6.1	0.575	0.758	6.7	6.85	8.215	8.492
00400	CONVERTED PH (STANDARD UNITS)	05/10/84-10/24/96	53	7.4	7.048	9.22	6.1	0.819	0.905	6.7	6.85	8.215	8.492
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	53	0.04	0.09	0.794	0.001	0.017	0.131	0.003	0.006	0.141	0.2
00403	PH, LAB, STANDARD UNITS SU	05/10/84-10/24/96	43	7.1	7.251	8.7	6.3	0.266	0.516	6.7	6.9	7.5	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/84-10/24/96	43	7.1	7.019	8.7	6.3	0.321	0.567	6.7	6.9	7.5	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/84-10/24/96	43	0.079	0.096	0.501	0.002	0.01	0.1	0.013	0.032	0.126	0.2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/84-10/24/96	43	40.	37.884	54.	21.	58.962	7.679	26.4	33.	44.	46.
00500	RESIDUE, TOTAL (MG/L)	05/10/84-10/24/96	42	77.5	93.333	772.	56.	11614.13	107.769	59.3	72.	83.25	93.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/10/84-10/24/96	42	23.	22.762	62.	0.	116.332	10.786	11.	16.	27.	32.1
00510	RESIDUE, TOTAL FIXED (MG/L)	05/10/84-10/24/96	42	57.	70.69	743.	16.	11454.073	107.024	35.6	48.75	62.25	70.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/10/84-10/24/96	42	3.	6.167	26.	0.5	35.74	5.978	1.5	2.5	9.25	14.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	05/10/84-10/24/96	42	2.5	3.048	10.	0.5	3.754	1.937	1.5	2.	3.	6.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	05/10/84-10/24/96	42	2.5	4.048	22.	0.	23.144	4.811	0.65	1.5	5.25	10.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/84-10/24/96	44	0.05	0.089	0.54	0.02	0.01	0.102	0.02	0.043	0.1	0.2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	45 ##		0.009	0.04	0.005	0.	0.008	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/10/84-10/24/96	45	0.16	0.199	0.5	0.02	0.026	0.16	0.02	0.06	0.305	0.464
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/84-10/24/96	45	0.4	0.442	1.1	0.2	0.042	0.206	0.2	0.3	0.5	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/84-10/24/96	45	0.02	0.037	0.2	0.005	0.001	0.039	0.01	0.01	0.045	0.094
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/84-07/01/93	24	0.01	0.017	0.09	0.005	0.	0.021	0.005	0.005	0.018	0.055
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-07/01/93	18	42.	40.111	51.	22.	68.693	8.288	25.6	34.75	44.75	50.1
00940	CHLORIDE,TOTAL IN WATER MG/L	04/27/89-10/24/96	9	5.	4.889	6.	4.	0.861	0.928	4.	4.	6.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	9	7.	7.	9.	5.	1.5	1.225	5.	6.	8.	9.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/84-10/06/94	29 ##		4.569	27.	0.5	38.084	6.171	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/84-10/06/94	29 ##	[‡] 1.5	2.748	5.	0.1	5.008	2.238	0.5	0.5	5.	5.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0007

Paramete	er	Period of Record	Obs Medi	an Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/84-10/06/94	29 ## 5.	. 9.362	55.	0.5	192.462	13.873	0.5	3.	5.	25.
01042	COPPER, TOTAL (UG/L AS CU)	05/10/84-10/06/94	29 ## 5.	. 10.414	41.	5.	114.894	10.719	5.	5.	10.	25.
01045	IRON, TOTAL (UG/L AS FE)	05/10/84-10/06/94	27 160.	. 561.259	4100.	25.	1017937.43	1008.929	50.	80.	460.	1980.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/84-10/06/94	29 ## 5.	. 6.569	39.	0.5	81.067	9.004	0.5	1.	5.	15.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/84-10/06/94	28 27.	.5 114.661	760.	5.	39451.742	198.625	5.	10.	105.	551.55
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/84-10/06/94	29 ## 5.	. 12.759	50.	5.	124.69	11.166	5.	5.	20.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/84-10/06/94	29 ## 10.	. 24.759	170.	5.	2048.761	45.263	5.	5.	21.5	132.
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	05/10/84-10/06/94	26 ## 3.	.75 3.788	10.	0.5	10.923	3.305	0.5	0.5	5.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/84-10/06/94	28 ## 0.	.15 0.168	0.4	0.05	0.005	0.072	0.14	0.15	0.15	0.3

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BOWA0008

LAT/LON: 37.148615/ -79.702227

NPS Station ID: BOWA0008 Location: STATION 12 CONFLUENCE WITH INDIAN CRK

Station Type: /TYPA/AMBNT/LAKE RMI-Indexes:

Description:

RMI-Hides: HUC: 03010101 Major Basin: 03-SOUTHEAST Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101024 RF3 Index: 03010101014400.00

VIRGINIA STATE WATER CONTROL BOARD RIVER: ROANOKE RIVER SMITH MTN. LAKE Depth of Water: 0 Elevation: 0

RF1 Mile Point: 16.240 RF3 Mile Point: 0.00

SECTION: 05

INTENSIVE SURVEY NO. 835104 BASIN: 4A ROANOKE REGION: 2 WEST CENTRAL SECTION: 05 TOPO MAP #: 0043 TOPO MAP NAME: GOODVIEW, VA

Agency: 21VASWCB FIPS State/County: 51019 VIRGINIA/BEDFORD STORET Station ID(s): 4AROA180.21 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 5.40
Distance from RF3: 0.18

On/Off RF1: OFF On/Off RF3:

Date Created: 12/12/87

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	97	16.2	16.11	30.1	5.5	37.03	6.085	9.08	11.3	18.35	26.66
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/17/88-10/02/89	12	4.05	8.825	34.	0.8	110.982	10.535	0.8	1.8	14.675	30.7
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/94-10/21/96	23	3.5	9.083	55.	2.	166.864	12.918	2.04	2.7	9.7	30.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/28/94-10/21/96	9	1.6	1.844	2.5	1.3	0.183	0.428	1.3	1.6	2.3	2.5
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	56	205.	208.679	336.	115.	1954.768	44.213	150.	180.	233.5	270.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	32	247.5	241.188	287.	182.	849.706	29.15	190.7	225.25	260.75	275.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/28/94-10/21/96	26	5.75	5.492	12.2	0.2	18.642	4.318	0.34	0.7	9.475	11.49
00300	OXYGEN, DISSOLVED MG/L	04/24/85-10/01/90	68	5.2	5.663	13.	0.	15.077	3.883	0.29	1.925	9.125	11.4
00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/89-10/02/89	3	2.	2.333	3.	2.	0.333	0.577	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/25/89-10/02/89	9	10.	9.222	21.	2.	36.694	6.058	2.	3.	12.5	21.
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	99	7.68	7.843	9.35	6.25	0.438	0.662	7.1	7.4	8.25	8.95
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	99	7.68	7.44	9.35	6.25	0.602	0.776	7.1	7.4	8.25	8.95
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	99	0.021	0.036	0.562	0.	0.005	0.069	0.001	0.006	0.04	0.079
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	91	7.7	7.764	9.1	5.8	0.356	0.597	7.2	7.4	8.2	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	91	7.7	7.301	9.1	5.8	0.572	0.756	7.2	7.4	8.2	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	91	0.02	0.05	1.585	0.001	0.029	0.169	0.003	0.006	0.04	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	91	87.	84.901	115.	48.	190.89	13.816	66.	75.	94.	101.
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	91	147.	225.429	7301.	48.	563463.292	750.642	114.2	133.	164.	179.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	91	35.	33.44	72.	5.	149.427	12.224	17.2	26.	42.	48.8
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	91	116.	192.758	7256.	5.	561608.608	749.406	86.2	97.	129.	143.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	91	3.	7.951	154.	0.5	359.317	18.956	1.5	2.5	7.	17.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	91#		2.637	14.	0.	3.978	1.995	1.	1.5	3.	4.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	91#		6.148	140.	0.5	296.147	17.209	0.5	1.5	3.	12.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	83	0.05	0.125	1.01	0.02	0.032	0.179	0.02	0.04	0.13	0.3
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	84	0.01	0.018	0.08	0.005	0.	0.018	0.005	0.005	0.02	0.055
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	84	0.425	0.434	1.09	0.02	0.067	0.26	0.04	0.243	0.638	0.785
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/24/85-10/21/96	84	0.4	0.454	3.1	0.05	0.122	0.349	0.2	0.3	0.5	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	85	0.03	0.044	0.5	0.005	0.004	0.06	0.01	0.02	0.05	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/85-06/26/90	46	0.01	0.021	0.22	0.005	0.001	0.038	0.005	0.009	0.02	0.043
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/17/88-10/02/89	12	3.25	3.192	4.7	1.9	0.99	0.995	1.93	2.075	4.	4.61
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/09/87-10/01/90	40	96.	94.725	130.	40.	308.563	17.566	70.6	84.	106.75	117.2
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	35	10.	10.771	18.	7.	4.887	2.211	9.	9.	13.	13.4
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	35	14.	15.086	22.	9.	8.434	2.904	12.	13.	17.	19.4

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0008

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951	FLUORIDE, TOTAL (MG/L AS F)	04/25/89-10/02/89	9	0.19	0.19	0.28	0.14	0.002	0.041	0.14	0.155	0.205	0.28
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/89-10/02/89	6	8.	8.433	13.1	3.2	12.615	3.552	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/85-10/04/94	49 ##	2.5	3.806	27.	0.5	22.196	4.711	0.5	2.5	5.	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/16/88-10/21/96	4	8.5	7.125	9.	2.5	9.729	3.119	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/28/94-10/21/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/85-10/04/94	49 ##	1.5	2.216	6.	0.5	3.189	1.786	0.5	1.15	5.	5.
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/16/88-10/21/96	4 ##	0.75	1.125	2.5	0.5	0.896	0.946	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/88-10/21/96	4	45.	43.	50.	32.	76.	8.718	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/85-10/04/94	49 ##	10.	15.	49.	0.5	144.625	12.026	0.5	5.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	07/17/85-10/04/94	49 ##		16.429	42.	5.	109.542	10.466	5.	5.	25.	25.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/88-10/21/96	4	38.	37.25	50.	23.	128.25	11.325	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/17/85-10/04/94	46	120.	1254.435	45600.		1909183.585	6701.431	29.1	57.5	272.5	781.2
01051	LEAD, TOTAL (UG/L AS PB)	07/17/85-10/04/94	48 ##	5.	9.5	120.	0.5	494.734	22.243	0.5	5. **	5. **	10.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/23/89-10/21/96	2	34.5	34.5	42.	27.	112.5	10.607	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/23/89-10/21/96	3	680.	712.	810.	646.	7492.	86.556				
01055	MANGANESE, TOTAL (UG/L AS MN)	07/17/85-10/04/94	48 ##	25.	79.823	610.	5.	21852.589	147.826	5.	20.	60.	200.
01067	NICKEL, TOTAL (UG/L AS NI)	07/17/85-10/04/94	49 ##	25.	18.418	50.	2.5	185.858	13.633	5. **	5. **	25. **	25.
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/88-10/21/96	4	30.	27.5	31.	19.	33.	5.745				
01092	ZINC, TOTAL (UG/L AS ZN)	07/17/85-10/04/94	48 ##	25.	44.896	513.	2.5	10111.234	100.555	5. **	10.	25. **	48.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/23/89-10/21/96	2	168.5	168.5	186.	151.	612.5	24.749	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/21/96-10/21/96		23600.	23600.	23600.	23600.	0.	0.				
01147	SELENIUM, TOTAL (UG/L AS SE)	04/22/86-10/04/94	47 ##	2.5	3.543	10.	0.5	8.205	2.864	0.5	2.5	5. **	10.
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/17/85-10/21/96	5	8.	6.48	13.	0.5	25.027	5.003	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/21/96-10/21/96		17600.	47600.	47600.	47600.	0.	0.				
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/24/90-10/21/96	10 ##		50.	50.	50.	0.	0.	50.	50.	50.	50.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/24/90-10/21/96	10##	1.699		1.699	1.699	0.	0.	1.699	1.699	1.699	1.699
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEA		16.14	50.	20.04	0.2	70 (70	0.07	**	**	**	**
32210 32211	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/24/90-10/01/90 04/24/90-10/01/90	4	16.14 8.6	17.88 9.007	30.04 18.42	9.2 0.	78.678 84.948	8.87 9.217	**	**	**	**
32211	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/24/90-10/01/90	3	16.96	15.663	29.63	0.4	214.859	14.658	**	**	**	**
32218	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/24/90-10/01/90	3	1.5	1.523	1.62	1.47	0.004	0.067	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/28/94-10/21/96	1 ##	2.5	2.5	2.5	2.5	0.004	0.067	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/16/88-10/21/96	2 ##	52.503		105.	0.005	5511.975	74.243	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/28/94-10/21/96	1 ##	32.303 40.	40.	40.	40.	0.	0.	**	**	**	**
39353	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/88-10/21/96	2 ##	27.75	27.75	55.	0.5	1485.125	38.537	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	2 ##	10.025		20.	0.05	199.001	14.107	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	2 ##	10.025		20.	0.05	199.001	14.107	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	2 ##	20.025		40.	0.05	798.001	28.249	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/88-10/21/96	2 ##	10.025		20.	0.05	199.001	14.107	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	2 ##	20.025		40.	0.05	798.001	28.249	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/88-10/21/96	2 ##	110.25	110.25	220.	0.5	24090.125	155.21	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/88-10/21/96	2 ##	10.025		20.	0.05	199.001	14.107	**	**	**	**
39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	08/16/88-10/21/96	2 ##	20.25	20.25	40.	0.5	780.125	27.931	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	06/28/94-10/04/94	6	98.5	95.667	116.	74.	369.867	19.232	**	**	**	**
70507	PHOSPHORUS.IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/28/94-10/21/96	23	0.01	0.015	0.06	0.005	0.	0.012	0.005	0.005	0.02	0.026
71900	MERCURY, TOTAL (UG/L AS HG)	04/24/85-10/04/94	52 ##	0.01	0.151	0.00	0.003	0.001	0.012	0.003	0.003	0.02	0.020
71921	MERCURY, TOTAL (UG/L AS IIG) MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/88-10/21/96	4 ##	0.175		0.25	0.1	0.004	0.065	**	**	**	**
75045	HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG	06/28/94-10/21/96	1 ##	20.	20.	20.	20.	0.004	0.003	**	**	**	**
79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	06/28/94-10/21/96	1 ##	105.	105.	105.	105.	0.	0.	**	**	**	**
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	06/28/94-06/28/94	3	3.2	5.267	10.	2.6	16.893	4.11	**	**	**	**
020,0		22.20,7.00,20,71	_	J.=	0.207		0	10.075					

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BOWA0008

				Total	Exceed	Prop.		8/01-10/14			-10/15-4/30			5/01-7/31-			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	$0.0\bar{0}$	3	0	0.00	6	0	0.00	3	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	23	1	0.04	9	1	0.11	8	0	0.00	6	0	0.00			
00299	OXYGEN DISSOLVED ANALYSIS BY PROBE	Other-Lo Lim.	4	26	10	0.38	9	6	0.67	8	0	0.00	9	4	0.44			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BOWA0008

				Total	Exceed	Prop.		8/01-10/14-			-10/15-4/30-			5/01-7/31			n/a	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	68	26	$0.3\bar{8}$	23	12	0.52	20	6	0.30	25	8	0.32			-
00400	PH	Other-Hi Lim.	9.	99	9	0.09	34	5	0.15	31	0	0.00	34	4	0.12			
		Other-Lo Lim.	6.5	99	2	0.02	34	0	0.00	31	2	0.06	34	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	91	3	0.03	33	1	0.03	28	1	0.04	30	1	0.03			
		Other-Lo Lim.	6.5	91	2	0.02	33	1	0.03	28	1	0.04	30	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	84	0	0.00	27	0	0.00	28	0	0.00	29	0	0.00			
00620	NITRATE NITROGEŃ, TOTAL AS N	Drinking Water	10.	84	0	0.00	27	0	0.00	28	0	0.00	29	0	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	35	0	0.00	12	0	0.00	11	0	0.00	12	0	0.00			
	•	Drinking Water	250.	35	0	0.00	12	0	0.00	11	0	0.00	12	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	35	0	0.00	12	0	0.00	11	0	0.00	12	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	9	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	49	0	0.00	18	0	0.00	14	0	0.00	17	0	0.00			
	<i>'</i>	Drinking Water	50.	49	0	0.00	18	0	0.00	14	0	0.00	17	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	37 &	1	0.03	12	1	0.08	14	0	0.00	11	0	0.00			
	,	Drinking Water	5.	37 &	1	0.03	12	1	0.08	14	0	0.00	11	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	49	0	0.00	18	0	0.00	14	0	0.00	17	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	27 &	3	0.11	9	0	0.00	5	0	0.00	13	3	0.23			
	,	Drinking Water	1300.	49	0	0.00	18	0	0.00	14	0	0.00	17	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	48	2	0.04	17	0	0.00	14	0	0.00	17	2	0.12			
		Drinking Water	15.	48	2	0.04	17	0	0.00	14	0	0.00	17	2	0.12			
01067	NICKEL, TOTAL	Fresh Acute	1400.	49	0	0.00	18	0	0.00	14	0	0.00	17	0	0.00			
	,	Drinking Water	100.	49	0	0.00	18	0	0.00	14	0	0.00	17	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	48	4	0.08	18	0	0.00	13	0	0.00	17	4	0.24			
	•	Drinking Water	5000.	48	0	0.00	18	0	0.00	13	0	0.00	17	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	47	0	0.00	18	0	0.00	14	0	0.00	15	0	0.00			
	,	Drinking Water	50.	47	0	0.00	18	0	0.00	14	0	0.00	15	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	52	Õ	0.00	18	Õ	0.00	17	Õ	0.00	17	Õ	0.00			
	, -	Drinking Water	2.	52	Õ	0.00	18	Ö	0.00	17	Õ	0.00	17	Õ	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	3	ŏ	0.00	10	Ŭ	2.00	- /		2.00	3	ő	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1985 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	6	10.2	13.783	26.	6.	63.462	7.966	**	**	**	**
00300	OXYGEN, DISSOLVED MĞ/L	04/24/85-10/01/90	6	5.4	5.317	9.6	1.1	11.586	3.404	**	**	**	**
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	9	8.	7.882	9.02	7.2	0.333	0.577	7.2	7.375	8.16	9.02
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	9	8.	7.621	9.02	7.2	0.409	0.64	7.2	7.375	8.16	9.02
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	9	0.01	0.024	0.063	0.001	0.001	0.024	0.001	0.007	0.046	0.063
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	6	7.95	8.117	9.	7.4	0.554	0.744	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	6	7.882	7.745	9.	7.4	0.719	0.848	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	6	0.013	0.018	0.04	0.001	0.	0.018	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	6	86.5	88.	101.	78.	74.4	8.626	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	6	151.5	155.	184.	137.	290.4	17.041	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	6	36.5	37.5	47.	32.	29.9	5.468	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	6	115.	117.5	137.	105.	134.3	11.589	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	6 ##	2.5	3.667	10.	2.	9.667	3.109	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	6 ##	2.5	2.167	2.5	1.	0.367	0.606	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	6 ##	2.5	3.583	9.	2.5	7.042	2.654	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	6 ##	0.05	0.075	0.2	0.05	0.004	0.061	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.01	0.013	0.02	0.005	0.	0.006	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.56	0.62	1.09	0.24	0.093	0.306	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/24/85-10/21/96	6	0.3	0.275	0.4	0.05	0.018	0.133	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	6	0.02	0.025	0.05	0.01	0.	0.014	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	13	15.	13.869	23.9	5.5	29.224	5.406	5.66	9.85	16.95	22.38
00300	OXYGEN. DISSOLVED MG/L	04/24/85-10/01/90	13	7.4	6.1	12.4	0.2	18.125	4.257	0.24	1.7	9.7	12.
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	14	7.4	7.393	8.6	6.25	0.411	0.641	6.35	6.9	7.725	8.45
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	14	7.389	6.986	8.6	6.25	0.589	0.767	6.35	6.9	7.725	8.45
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	14	0.041	0.103	0.562	0.003	0.026	0.161	0.004	0.019	0.126	0.459
00403	PH, LAB, ŠTANDARD UNITS SU	04/24/85-10/21/96	12	7.55	7.675	9.1	6.5	0.553	0.744	6.56	7.325	8.275	8.95
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	12	7.547	7.211	9.1	6.5	0.788	0.888	6.56	7.325	8.275	8.95
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	12	0.028	0.062	0.316	0.001	0.009	0.096	0.001	0.006	0.048	0.281
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	12	89.	87.083	99.	66.	96.992	9.848	68.7	80.25	94.75	98.1
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	12	148.5	146.75	174.	103.	510.75	22.6	107.2	128.75	168.75	172.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	12	33.	32.	51.	8.	246.545	15.702	8.3	18.75	48.75	50.7
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	12	116.5	114.75	137.	90.	242.023	15.557	91.5	102.5	130.	136.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	12 ##	2.5	3.375	7.	2.5	2.688	1.639	2.5	2.5	4.375	6.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	12 ##		2.708	4.	2.5	0.203	0.45	2.5	2.5	2.875	3.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	12 ##	2.5	2.542	4.	2.	0.248	0.498	2.	2.5	2.5	3.55
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.1	0.167	0.6	0.05	0.027	0.164	0.05	0.05	0.275	0.51
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.01	0.011	0.03	0.005	0.	0.008	0.005	0.005	0.018	0.027
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.555	0.459	0.78	0.07	0.075	0.274	0.07	0.135	0.688	0.756
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	12	0.45	0.467	0.7	0.3	0.021	0.144	0.3	0.325	0.575	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	12	0.015	0.016	0.03	0.005	0.	0.008	0.007	0.01	0.02	0.03

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	15	15.	15.42	30.1	8.4	34.473	5.871	9.96	11.6	16.9	27.88
00300	OXYGEN, DISSOLVED MG/L	04/24/85-10/01/90	15	4.5	5.267	10.7	0.	15.765	3.971	0.12	0.8	9.8	10.64
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	15	7.59	7.657	9.	7.	0.289	0.538	7.	7.4	7.75	8.802

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	15	7.59	7.456	9.	7.	0.332	0.576	7.	7.4	7.75	8.802
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	15	0.026	0.035	0.1	0.001	0.001	0.03	0.002	0.018	0.04	0.1
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	11	7.4	7.564	8.7	7.	0.339	0.582	7.	7.2	7.7	8.68
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	11	7.4	7.345	8.7	7.	0.391	0.625	7.	7.2	7.7	8.68
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	11	0.04	0.045	0.1	0.002	0.001	0.034	0.002	0.02	0.063	0.1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	11	66.	73.273	112.	48.	464.818	21.56	48.	60.	92.	109.4
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	11	137.	791.455	7301.	48.	4666478.073	2160.203	53.8	85.	193.	5904.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	11	34.	33.545	72.	5.	338.073	18.387	6.2	18.	43.	66.6
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	11	101.	755.182	7256.	5.	4654213.764	2157.363	11.4	48.	159.	5859.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	11 ##	2.5	27.136	154.	2.5	2501.455	50.015	2.5	2.5	25.	141.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	11 ##	2.5	4.	14.	0.	17.	4.123	0.5	2.5	2.5	13.2
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	11 ##	2.5	24.864	140.	2.5	2042.155	45.19	2.5	2.5	25.	128.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	10	0.1	0.17	0.4	0.05	0.019	0.138	0.05	0.05	0.3	0.39
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	11	0.01	0.019	0.07	0.005	0.	0.02	0.005	0.005	0.03	0.064
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	11	0.37	0.401	0.69	0.025	0.044	0.209	0.052	0.32	0.65	0.688
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	11	0.3	0.436	1.	0.2	0.061	0.246	0.2	0.3	0.6	0.94
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	11	0.1	0.121	0.5	0.02	0.018	0.136	0.02	0.04	0.1	0.44

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	15	16.1	15.493	30.1	7.2	43.515	6.597	7.2	9.7	17.3	28.42
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @) 25C)	08/16/88-10/21/96	6	233.5	244.667	336.	175.	3153.467	56.156	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/24/85-10/01/90	15	4.3	5.44	11.4	0.2	12.398	3.521	0.2	3.1	8.9	10.62
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	15	7.4	7.693	9.1	7.1	0.353	0.594	7.16	7.3	8.25	8.86
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	15	7.4	7.474	9.1	7.1	0.405	0.636	7.16	7.3	8.25	8.86
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	15	0.04	0.034	0.079	0.001	0.001	0.023	0.002	0.006	0.05	0.07
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	12	7.55	7.492	8.5	5.8	0.424	0.652	6.22	7.25	7.7	8.41
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	12	7.547	6.797	8.5	5.8	0.95	0.975	6.22	7.25	7.7	8.41
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	12	0.028	0.159	1.585	0.003	0.202	0.449	0.004	0.02	0.057	1.128
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	12	86.5	84.917	109.	61.	182.265	13.501	64.9	75.	92.	106.6
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	12	148.5	148.917	201.	101.	819.356	28.624	105.8	129.25	169.5	195.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	12	28.5	28.917	52.	6.	206.083	14.356	7.2	15.75	40.	50.2
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	12	117.	128.333	249.	87.	1954.424	44.209	88.2	98.5	145.5	222.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	3.5	4.5	10.	2.	6.364	2.523	2.15	2.5	6.75	9.1
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	3.	3.167	5.	2.	0.97	0.985	2.15	2.5	3.75	5.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	12 ##	2.5	2.333	7.	0.5	3.879	1.969	0.5	0.5	3.625	6.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.055	0.083	0.28	0.02	0.007	0.085	0.02	0.033	0.078	0.268
00615	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	04/24/85-10/21/96	12	0.025	0.036	0.08	0.01	0.001	0.027	0.01	0.013	0.06	0.08
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.38	0.448	0.85	0.13	0.062	0.249	0.142	0.28	0.715	0.841
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/24/85-10/21/96	12	0.4	0.408	0.7	0.2	0.019	0.138	0.2	0.325	0.5	0.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	12	0.025	0.042	0.1	0.005	0.001	0.037	0.007	0.02	0.088	0.1

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	11	16.3	16.818	28.5	7.8	44.5	6.671	8.22	10.1	20.8	28.08
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	12	215.5	220.75	282.	170.	960.932	30.999	174.2	205.	238.75	276.
00300	OXYGEN, DISSOLVED MG/L	04/24/85-10/01/90	11	5.4	5.427	11.4	0.1	14.802	3.847	0.14	2.	8.1	11.28
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	11	7.63	7.806	9.1	7.	0.507	0.712	7.02	7.1	8.12	9.08
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	11	7.63	7.464	9.1	7.	0.637	0.798	7.02	7.1	8.12	9.08

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Annual Analysis for 1989 - Station BOWA0008

Paramete	T .	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	11	0.023	0.034	0.1	0.001	0.001	0.035	0.001	0.008	0.079	0.096
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	12	7.8	7.775	8.9	7.2	0.249	0.499	7.2	7.4	7.975	8.75
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	12	7.8	7.584	8.9	7.2	0.289	0.538	7.2	7.4	7.975	8.75
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	12	0.016	0.026	0.063	0.001	0.	0.021	0.002	0.011	0.04	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	12	83.	80.583	93.	65.	73.356	8.565	65.3	76.25	86.75	91.5
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	12	139.	142.5	171.	115.	288.455	16.984	116.8	134.25	159.75	168.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	12	36.	34.583	45.	20.	71.356	8.447	20.6	27.75	42.75	44.4
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	12	109.	107.917	129.	85.	192.083	13.859	87.4	95.75	120.25	127.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	5.	6.625	19.	0.5	38.188	6.18	0.5	1.375	8.	18.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	3.	3.292	7.	0.5	4.975	2.231	0.5	0.875	5.5	6.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	1.	3.542	16.	0.5	25.703	5.07	0.5	0.5	5.5	14.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.05	0.113	0.52	0.02	0.022	0.148	0.02	0.02	0.143	0.442
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	12	0.01	0.018	0.05	0.005	0.	0.015	0.005	0.006	0.028	0.047
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	04/24/85-10/21/96	12	0.51	0.474	0.86	0.02	0.09	0.301	0.029	0.163	0.77	0.851
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	12	0.4	0.375	0.7	0.2	0.022	0.148	0.2	0.225	0.475	0.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	12	0.03	0.032	0.07	0.005	0.	0.018	0.01	0.02	0.04	0.067

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	11	18.1	17.455	28.6	9.3	27.717	5.265	9.82	12.3	19.4	27.24
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	12	204.5	200.	260.	115.	1569.455	39.616	130.3	172.5	221.75	257.3
00300	OXYGEN, DISSOLVED MG/L	04/24/85-10/01/90	8	6.3	6.7	13.	1.1	25.271	5.027	**	**	**	**
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	9	7.82	7.974	8.9	7.39	0.421	0.649	7.39	7.42	8.75	8.9
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	9	7.82	7.685	8.9	7.39	0.516	0.718	7.39	7.42	8.75	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	9	0.015	0.021	0.041	0.001	0.	0.017	0.001	0.002	0.038	0.041
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	12	7.8	7.917	8.5	7.3	0.16	0.4	7.33	7.7	8.35	8.47
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	12	7.789	7.762	8.5	7.3	0.186	0.431	7.33	7.7	8.35	8.47
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	12	0.016	0.017	0.05	0.003	0.	0.015	0.003	0.005	0.02	0.047
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	12	89.	90.083	115.	68.	204.811	14.311	69.2	76.75	101.	112.3
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	12	147.5	147.5	196.	114.	626.818	25.036	114.3	120.5	167.25	188.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	12	28.	29.333	46.	17.	101.879	10.094	17.3	19.	39.25	44.2
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	12	114.	118.167	165.	90.	540.333	23.245	90.6	98.25	130.75	161.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	2.5	4.75	24.	0.5	41.614	6.451	0.5	1.25	6.25	18.9
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	1.	1.583	6.	0.5	2.902	1.703	0.5	0.5	1.75	5.4
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	12	1.5	3.333	20.	0.5	29.833	5.462	0.5	1.	2.75	15.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	8	0.07	0.174	0.98	0.02	0.107	0.327	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	8 ##		0.007	0.01	0.005	0.	0.003	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	8	0.55	0.459	0.79	0.02	0.092	0.304	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	8	0.4	0.538	1.3	0.2	0.131	0.362	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	9	0.04	0.044	0.12	0.01	0.001	0.032	0.01	0.025	0.05	0.12

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	6	17.95	18.533	28.2	11.6	34.239	5.851	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	6	157.5	177.5	270.	140.	2337.5	48.348	**	**	**	**
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	6	7.835	7.905	9.1	7.3	0.412	0.642	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	6	7.835	7.661	9.1	7.3	0.484	0.696	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	6	0.015	0.022	0.05	0.001	0.	0.019	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	6	7.7	7.583	8.3	6.8	0.378	0.615	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	6	7.7	7.25	8.3	6.8	0.511	0.715	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	6	0.02	0.056	0.158	0.005	0.005	0.068	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	6	87.	84.833	106.	64.	296.167	17.209	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	6	141.	139.333	182.	104.	919.467	30.323	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	6	40.5	38.833	55.	17.	271.767	16.485	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	6	99.	100.5	128.	74.	480.7	21.925	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	6 ##	1.5	2.583	8.	1.5	7.042	2.654	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	6 ##	1.5	1.75	3.	1.5	0.375	0.612	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	6 ##	1.5	2.083	5.	1.5	2.042	1.429	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.04	0.083	0.33	0.02	0.015	0.121	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.27	0.282	0.6	0.04	0.042	0.205	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/24/85-10/21/96	6	0.4	0.417	0.6	0.3	0.014	0.117	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	6	0.02	0.02	0.03	0.01	0.	0.009	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	9	16.1	17.178	28.9	10.4	40.887	6.394	10.4	12.4	21.8	28.9
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	9	180.	196.667	270.	150.	1700.	41.231	150.	165.	230.	270.
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	9	8.7	8.652	9.35	8.1	0.183	0.427	8.1	8.2	8.95	9.35
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	9	8.7	8.482	9.35	8.1	0.215	0.464	8.1	8.2	8.95	9.35
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	9	0.002	0.003	0.008	0.	0.	0.003	0.	0.001	0.006	0.008
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	9	7.8	7.867	8.7	7.	0.347	0.589	7.	7.35	8.4	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	9	7.8	7.553	8.7	7.	0.458	0.677	7.	7.35	8.4	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	9	0.016	0.028	0.1	0.002	0.001	0.033	0.002	0.004	0.047	0.1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	9	90.	87.778	98.	69.	122.694	11.077	69.	77.5	98.	98.
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	9	160.	151.111	174.	117.	383.611	19.586	117.	133.5	164.5	174.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	9	34.	33.444	43.	20.	53.028	7.282	20.	29.	39.5	43.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	9	119.	117.667	137.	86.	283.5	16.837	86.	106.5	132.5	137.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	9	4.	6.389	23.	1.5	44.861	6.698	1.5	3.	8.	23.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	9 ##	1.5	1.944	4.	1.5	0.84	0.917	1.5	1.5	2.25	4.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	9 ##	1.5	4.333	19.	1.5	34.813	5.9	1.5	1.5	5.5	19.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.045	0.068	0.15	0.02	0.003	0.057	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	6	0.035	0.033	0.06	0.005	0.001	0.029	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	04/24/85-10/21/96	6	0.32	0.312	0.56	0.02	0.034	0.185	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/24/85-10/21/96	6	0.35	0.333	0.5	0.1	0.027	0.163	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	6	0.025	0.028	0.05	0.02	0.	0.012	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	11	17.1	17.564	28.6	10.3	36.989	6.082	10.4	12.7	18.	28.58
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	11	204.	212.182	310.	150.	2093.364	45.753	154.	180.	235.	302.
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	11	7.9	8.075	9.07	7.13	0.356	0.596	7.198	7.9	8.7	9.046
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	11	7.9	7.775	9.07	7.13	0.455	0.674	7.198	7.9	8.7	9.046
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	11	0.013	0.017	0.074	0.001	0.	0.021	0.001	0.002	0.013	0.066
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	11	7.9	8.	8.9	7.3	0.26	0.51	7.32	7.8	8.4	8.88
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	11	7.9	7.787	8.9	7.3	0.31	0.557	7.32	7.8	8.4	8.88
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	11	0.013	0.016	0.05	0.001	0.	0.015	0.001	0.004	0.016	0.048
00410	ALKALINITY TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	11	93	89 182	102	69	114 164	10 685	69.8	83	97	101.8

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0008

Paramete	er e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	11	145.	150.364	180.	118.	300.055	17.322	122.	140.	165.	177.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	11	37.	37.909	49.	30.	26.891	5.186	30.6	35.	42.	47.8
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	11	111.	112.455	142.	88.	284.273	16.86	89.6	98.	128.	139.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	11	4.	9.	33.	3.	100.	10.	3.	3.	17.	30.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	11 ##	1.5	2.364	6.	1.5	2.455	1.567	1.5	1.5	4.	5.6
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	11 ##	1.5	6.545	27.	1.5	72.123	8.493	1.5	1.5	13.	24.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	11	0.04	0.147	1.01	0.02	0.085	0.291	0.02	0.02	0.13	0.846
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	11	0.01	0.012	0.02	0.005	0.	0.006	0.005	0.005	0.02	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	11	0.5	0.407	0.8	0.02	0.068	0.26	0.02	0.04	0.55	0.752
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	11	0.5	0.718	3.1	0.3	0.642	0.801	0.3	0.4	0.6	2.62
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	11	0.04	0.043	0.13	0.02	0.001	0.03	0.02	0.03	0.04	0.114

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/01 to 10/14 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	35	17.1	19.117	30.1	12.8	25.013	5.001	15.	16.	20.8	28.72
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	25	199.	199.72	310.	115.	2115.71	45.997	146.	168.	232.	267.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	12	232.	224.333	271.	182.	1053.515	32.458	182.	190.25	254.25	266.5
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	34	7.605	7.897	9.35	7.	0.524	0.724	7.115	7.3	8.61	9.085
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	34	7.605	7.53	9.35	7.	0.664	0.815	7.115	7.3	8.61	9.085
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	34	0.025	0.03	0.1	0.	0.001	0.028	0.001	0.002	0.05	0.077
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	33	7.6	7.67	9.1	5.8	0.465	0.682	6.94	7.25	8.05	8.76
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	33	7.6	7.081	9.1	5.8	0.822	0.907	6.94	7.25	8.05	8.76
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	33	0.025	0.083	1.585	0.001	0.074	0.272	0.002	0.009	0.057	0.116
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	33	85.	82.152	115.	60.	230.633	15.187	62.2	67.5	93.	101.6
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	33	143.	353.788	7301.	48.	1556437.047	1247.572	101.4	115.	165.5	187.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	33	27.	27.758	72.	5.	177.189	13.311	10.4	19.	35.	43.8
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	33	113.	326.03	7256.	5.	1548750.593	1244.488	76.8	91.5	134.5	159.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	33	3.	7.197	33.	0.5	70.765	8.412	1.5	2.5	7.5	23.6
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	33	2.5	2.667	7.	0.	2.885	1.699	0.7	1.5	3.5	6.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	33 ##		5.242	27.	0.5	55.393	7.443	0.5	1.	5.	19.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	27	0.05	0.179	1.01	0.02	0.072	0.269	0.02	0.02	0.28	0.612
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	27	0.01	0.015	0.07	0.005	0.	0.016	0.005	0.005	0.02	0.042
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	27	0.27	0.266	0.78	0.02	0.049	0.221	0.02	0.05	0.39	0.56
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	04/24/85-10/21/96	27	0.4	0.53	3.1	0.2	0.311	0.557	0.2	0.3	0.5	0.82
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	27	0.04	0.052	0.13	0.005	0.002	0.039	0.01	0.02	0.1	0.104
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	12	9.5	9.917	13.	7.	3.538	1.881	7.3	9.	11.5	13.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	12	13.5	13.833	19.	9.	7.788	2.791	9.6	12.	16.	18.4
01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/85-10/04/94	18##		3.444	5.	0.5	2.967	1.723	0.5	2.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/85-10/04/94	18##		2.75	6.	0.5	4.037	2.009	0.5	1.5	5.	5.1
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/85-10/04/94	18##		14.75	25.	0.5	112.301	10.597	4.55	5.	25.	25. 25.
01042	COPPER, TOTAL (UG/L AS CU)	07/17/85-10/04/94	18 ##		16.111	25.	5.	86.928	9.324	5.	5.	25.	
01045	IRON, TOTAL (UG/L AS FE)	07/17/85-10/04/94	18	120.	365.333	2800.	25.	498416.118	705.986	29.5	57.5	280.	1720.
01051	LEAD, TOTAL (UG/L AS PB)	07/17/85-10/04/94	17 ##		4.971	14.	0.5	10.108	3.179	0.5	3.75	5.	10.8
01055	MANGANESE, TOTAL (UG/L AS MN)	07/17/85-10/04/94	18##		84.722	610.	5.	28330.801	168.318	5.	20.	60.	484.
01067	NICKEL, TOTAL (UG/L AS NI)	07/17/85-10/04/94	18 ##		17.5	50.	5.	165.441	12.862	5.	5.	25.	27.5
01092	ZINC, TÓTAL (UĞ/L AS ZN)	07/17/85-10/04/94	18##		17.778	40.	5.	115.359	10.741	5.	5.	25.	26.5
01147	SELENIUM, TOTAL (UG/L AS SE)	04/22/86-10/04/94	18##		4.278	10.	0.5	9.389	3.064	0.5	2.5	5.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	04/24/85-10/04/94	18 ##	0.15	0.158	0.3	0.15	0.001	0.035	0.15	0.15	0.15	0.165

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	28	14.45	13.661	21.3	5.5	21.367	4.622	5.99	10.	17.475	19.29
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	17	221.	225.706	336.	170.	1719.721	41.47	178.	202.	246.5	292.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	11	257.	259.909	287.	237.	247.891	15.745	239.	248.	271.	286.2
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	31	7.7	7.675	8.9	6.25	0.4	0.632	6.9	7.3	7.9	8.7
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	31	7.7	7.231	8.9	6.25	0.603	0.776	6.9	7.3	7.9	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	31	0.02	0.059	0.562	0.001	0.013	0.115	0.002	0.013	0.05	0.126
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	28	7.75	7.711	9.	6.5	0.31	0.557	6.97	7.325	8.075	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	28	7.747	7.366	9.	6.5	0.433	0.658	6.97	7.325	8.075	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	28	0.018	0.043	0.316	0.001	0.005	0.068	0.004	0.008	0.048	0.11
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	28	89.	86.214	109.	48.	205.878	14.348	64.2	81.	94.75	102.4
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	28	151.	156.75	318.	103.	1474.491	38.399	117.	138.75	169.5	185.7
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	28	35.5	34.071	52.	8.	100.143	10.007	17.1	30.25	37.75	47.2
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	28	116.5	126.25	275.	85.	1712.639	41.384	94.2	106.5	133.	154.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	28	3.	13.411	154.	0.5	1056.501	32.504	0.5	2.5	7.	27.3
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	28 ##	2.25	2.804	14.	0.5	8.247	2.872	0.5	1.5	3.	5.5
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	28 ##	2.5	11.232	140.	0.5	876.25	29.602	0.5	1.5	5.5	22.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	28	0.075	0.128	0.6	0.02	0.017	0.13	0.02	0.05	0.188	0.3

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	28	0.01	0.018	0.06	0.005	0.	0.017	0.005	0.01	0.02	0.06
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	28	0.495	0.51	1.09	0.07	0.057	0.238	0.24	0.305	0.67	0.824
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	28	0.4	0.457	1.	0.2	0.037	0.193	0.29	0.3	0.6	0.71
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	28	0.03	0.05	0.5	0.005	0.009	0.095	0.01	0.02	0.04	0.065
00940	CHLORIDE, TOTAL IN WATER MG/L	04/25/89-10/21/96	11	12.	12.	18.	9.	7.2	2.683	9.	9.	13.	17.2
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	11	16.	16.545	22.	14.	7.273	2.697	14.	14.	19.	21.4
01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/85-10/04/94	14 ##		2.214	2.5	0.5	0.527	0.726	0.5	2.5	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/85-10/04/94	14 ##		1.357	1.5	0.5	0.132	0.363	0.5	1.5	1.5	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/85-10/04/94	14 ##	25.	16.679	25.	0.5	134.6	11.602	0.5	2.5	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	07/17/85-10/04/94	14 ##	25.	17.857	25.	5.	98.901	9.945	5.	5.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	07/17/85-10/04/94	12	140.	287.083	1400.	25.	140692.992	375.091	32.5	100.	385.	1109.
01051	LEAD, TOTAL (UG/L AS PB)	07/17/85-10/04/94	14 ##	5.	6.357	10.	2.	9.016	3.003	2.	5.	10.	10.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/17/85-10/04/94	14 ##		48.571	150.	5.	2670.879	51.681	12.5	25.	53.75	145.
01067	NICKEL, TOTAL (UG/L AS NI)	07/17/85-10/04/94	14 ##	25.	23.75	50.	2.5	211.298	14.536	2.5	19.375	25.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	07/17/85-10/04/94	13 ##		21.538	30.	2.5	75.561	8.693	2.5	22.5	25.	28.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/22/86-10/04/94	14 ##		2.25	2.5	0.5	0.413	0.643	0.75	2.5	2.5	2.5
71900	MERCURY, TOTAL (UG/L AS HG)	04/24/85-10/04/94	17 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0008

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/85-10/21/96	34	11.75	15.032	28.5	7.2	48.594	6.971	8.65	10.175	18.95	26.9
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/16/88-10/21/96	14	195.	204.	270.	150.	1690.615	41.117	150.	173.75	230.5	270.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/89-10/21/96	9	240.	240.778	276.	209.	625.944	25.019	209.	219.	267.5	276.
00400	PH (STANDARD UNITS)	04/24/85-10/21/96	34	7.835	7.942	9.1	7.	0.373	0.61	7.295	7.453	8.262	9.01
00400	CONVERTED PH (STANDARD UNITS)	04/24/85-10/21/96	34	7.835	7.643	9.1	7.	0.465	0.682	7.295	7.452	8.262	9.01
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	34	0.015	0.023	0.1	0.001	0.001	0.023	0.001	0.005	0.035	0.052
00403	PH, LAB, STANDARD UNITS SU	04/24/85-10/21/96	30	7.75	7.917	9.	7.2	0.266	0.516	7.4	7.5	8.4	8.69
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/85-10/21/96	30	7.747	7.697	9.	7.2	0.316	0.562	7.4	7.5	8.4	8.69
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/85-10/21/96	30	0.018	0.02	0.063	0.001	0.	0.017	0.002	0.004	0.032	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/85-10/21/96	30	87.	86.7	106.	64.	132.631	11.517	72.1	76.75	98.	100.8
00500	RESIDUE, TOTAL (MG/L)	04/24/85-10/21/96	30	149.5	148.333	184.	85.	407.195	20.179	123.5	137.	162.5	169.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/24/85-10/21/96	30	41.5	39.1	55.	17.	104.714	10.233	22.2	35.	46.5	51.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/24/85-10/21/96	30	110.5	108.233	153.	48.	489.633	22.128	86.4	96.75	121.75	130.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/85-10/21/96	30 ##		3.683	10.	1.	5.129	2.265	1.5	2.5	6.	7.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/24/85-10/21/96	30 ##		2.45	6.	0.5	1.42	1.192	1.05	1.5	3.	4.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/24/85-10/21/96	30 ##		2.4	7.	0.5	1.714	1.309	1.	1.5	2.5	4.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/85-10/21/96	28	0.05	0.071	0.33	0.02	0.005	0.069	0.02	0.033	0.095	0.191
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	29	0.01	0.02	0.08	0.005	0.	0.022	0.005	0.005	0.02	0.06
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/85-10/21/96	29	0.56	0.516	0.85	0.02	0.06	0.245	0.04	0.41	0.695	0.83
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/85-10/21/96	29	0.4	0.381	0.7	0.05	0.026	0.162	0.2	0.25	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/85-10/21/96	30	0.02	0.031	0.1	0.005	0.001	0.023	0.01	0.02	0.043	0.05
00940	CHLORIDE,TOTAL IN WATER MG/L	04/25/89-10/21/96	12	10.	10.5	14.	9.	2.636	1.624	9.	9.	11.	13.7
00945	SULFATE, TOTAL (MG/L AS SO4)	04/25/89-10/21/96	12	14.5	15.	20.	12.	7.818	2.796	12.	13.	16.75	20.
01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/85-10/04/94	17 ##		5.5	27.	0.5	57.594	7.589	0.5	1.	5.	23.8
01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/85-10/04/94	17 ##		2.359	5.	0.5	4.184	2.045	0.5	0.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/85-10/04/94	17 ##		13.882	49.	0.5	201.329	14.189	0.5	5.	25.	38.6
01042	COPPER, TOTAL (UG/L AS CU)	07/17/85-10/04/94	17 ##		15.588	42.	5.	153.257	12.38	5.	5.	25.	38.8
01045	IRON, TOTAL (UG/L AS FE)	07/17/85-10/04/94	16	120.	2980.188	45600.		185516.963	11365.981	26.4	42.5	215.	14041.2
01051	LEAD, TOTAL (UG/L AS PB)	07/17/85-10/04/94	17 ##		16.618	120.	0.5	1351.579	36.764	0.5	1.5	5.	110.4
01055	MANGANESE, TOTAL (UG/L AS MN)	07/17/85-10/04/94	16	22.5	101.656	608.	5.	32599.619	180.554	5.	6.25	105.	519.52
01067	NICKEL, TOTAL (UG/L AS NI)	07/17/85-10/04/94	17 ##		15.	50.	5.	171.875	13.11	5.	5.	25.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	07/17/85-10/04/94	17	20.	91.471	513.	5.	25947.14	161.081	5.	7.5	72.5	423.4
01147	SELENIUM, TOTAL (UG/L AS SE)	04/22/86-10/04/94	15 ##		3.867	10.	0.5	12.695	3.563	0.5	0.5	5.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	04/24/85-10/04/94	17 ##	0.15	0.144	0.15	0.1	0.	0.017	0.1	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BOWA0009

NPS Station ID: BOWA0009 Location: RT. 668 BRIDGE

LAT/LON: 37.079726/ -79.702504

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

STORET Station ID(s): 4AGIL004.46 /VA4A05-X0042/VA4A2X0042 Within Park Boundary: No

RMI-Miles: HUC: 03010101

Depth of Water: 0 Elevation: 0

Major Basin: 03-SOUTHEAST Minor Basin: 4-ROANOKE-YADKIN Aquifer: Water Body Id:

RF1 Index: 03010101025 RF3 Index: 03010101002704.33 ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.11

RF3 Mile Point: 4.33

On/Off RF1: OFF On/Off RF3:

Date Created: / /

VIRGINIA STATE WATER CONTROL BOARD

AMBIENT MONITORING BASIN: 4A ROANOKE

RF1 Mile Point: 2.020

REGION: 2 WEST CENTRAL

TOPO MAP #: 0044 TOPO MAP NAME: MONETA SW, VA RIVER: GILLS CREEEK SECTION: 05

Parameter Inventory for Station: BOWA0009

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-06/15/76	34	25.85	24.95	29.4	18.3	11.026	3.32	18.9	23.175	27.8	28.6
00300	OXYGEN, DISSOLVED MG/L	07/07/71-06/15/76	34	8.7	8.8	10.4	7.	0.77	0.878	7.7	8.175	9.625	10.
00400	PH (STANDARD UNITS)	07/07/71-06/15/76	33	8.3	8.182	9.3	6.5	0.588	0.767	7.	7.5	8.7	9.12
00400	CONVERTED PH (STANDARD UNITS)	07/07/71-06/15/76	33	8.3	7.513	9.3	6.5	1.05	1.025	7.	7.5	8.7	9.12
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-06/15/76	33	0.005	0.031	0.316	0.001	0.004	0.066	0.001	0.002	0.032	0.1
00610	NITROGEŇ, AMMONIA, TOTAL (MG/L AS N)	08/11/71-06/15/76	25 ##	0.05	0.072	0.2	0.005	0.002	0.047	0.032	0.05	0.1	0.152
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/11/71-06/15/76	25 ##	0.005	0.007	0.03	0.005	0.	0.006	0.005	0.005	0.008	0.014
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/11/71-06/15/76	25	0.025	0.048	0.37	0.005	0.007	0.083	0.008	0.01	0.028	0.184
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	08/11/71-06/15/76	25	0.3	0.38	0.8	0.1	0.035	0.187	0.2	0.3	0.45	0.74
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-06/15/76	4 ##	1.	1.25	2.5	0.5	0.75	0.866	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-06/15/76	5 ##	5.	3.5	5.	0.5	4.5	2.121	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-06/15/76	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-06/15/76	7 ##	5.	5.714	10.	5.	3.571	1.89	**	**	**	**
01051	LEAD, TOTAL (UĞ/L AS PB)	08/11/71-06/15/76	7 ##	5.	7.143	20.	3.	33.476	5.786	**	**	**	**
01065	NICKÉL, DISSOLVED (UG/Ĺ AS NI)	08/01/73-06/15/76	4 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-06/15/76	7	20.	16.429	30.	5.	130.952	11.443	**	**	**	**
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-06/15/76	30 ##	50.	108.333	800.	50.	25531.609	159.786	50.	50.	100.	280.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-06/15/76	30 ##	1.699	1.859	2.903	1.699	0.098	0.313	1.699	1.699	2.	2.429
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	N =		72.208								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	08/11/71-06/15/76	25 ##	0.05	0.058	0.2	0.05	0.001	0.031	0.05	0.05	0.05	0.07
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/11/71-06/15/76	25 ##	0.05	0.036	0.1	0.005	0.001	0.024	0.005	0.01	0.05	0.05
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-06/15/76	7 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

		Tot	al Exceed	Prop.		8/01-10/14		10/13	5-4/30		5/01-7/31-			n/a	
Parameter	Std. Type	Std. Value O	bs Standard	Exceeding	Obs	Exceed	Prop.	Obs Exc	eed Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00200 OVVCEN DISCOLVED	Other Le Lim	4	24 0	0.00	15	0	0.00	1	0 0.00	15	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-8/01-10/14-			-10/15-4/30-			5/01-7/31			n/a	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	33	7	0.21	14	3	0.21	4	0	0.00	15	4	0.27			-
		Other-Lo Lim.	6.5	33	1	0.03	14	1	0.07	4	0	0.00	15	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	25	0	0.00	13	0	0.00	3	0	0.00	9	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	25	0	0.00	13	0	0.00	3	0	0.00	9	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	50.	4	0	0.00	3	0	0.00				1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2 &	0	0.00	2	0	0.00									
		Drinking Water	5.	2 &	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	5	0	0.00				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	5	0	0.00				2	0	0.00			
		Drinking Water	1300.	7	0	0.00	5	0	0.00				2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00	5	0	0.00				2	0	0.00			
		Drinking Water	15.	7	1	0.14	5	1	0.20				2	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	0	0.00	5	0	0.00				2	0	0.00			
		Drinking Water	5000.	7	0	0.00	5	0	0.00				2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	30	3	0.10	12	0	0.00	4	1	0.25	14	2	0.14			
71900	MERCURY, TOTAL	Fresh Acute	2.4	7	0	0.00	5	0	0.00				2	0	0.00			
		Drinking Water	2.	7	0	0.00	5	0	0.00				2	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0010

NPS Station ID: BOWA0010 LAT/LON: 37.10 Location: RT. 834 BRIDGE NEAR BOOKER T.WASHINGTON NAT.PARK LAT/LON: 37.101116/ -79.733337

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles: HUC: 03010101 Major Basin: 03-SOUTHEAST

Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101

RF3 Index: 03010101005504.70

RF1 Mile Point: 0.000 RF3 Mile Point: 5.51

VIRGINIA STATE WATER CONTROL BOARD RIVER: GILLS CREEK SECTION: 06A

Depth of Water: 0

Elevation: 0

INTENSIVE SURVEY 925102 BASIN: 4A ROANOKE A TOPO MAP #: 0044 TOPO MAP NAME: MONETA SW, VA

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN STORET Station ID(s): 4AGIL008.30 Within Park Boundary: No

Date Created: 05/02/92

On/Off RF1:

On/Off RF3:

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 2.40
Distance from RF3: 0.04

REGION: 2 WEST CENTRAL

Parameter Inventory for Station: BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	133	20.5	19.714	25.	9.3	13.084	3.617	13.98	17.85	22.6	23.76
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TÚRB UNIT)	07/06/94-09/12/95	35	17.7	52.92	580.	7.9	10283.289	101.407	10.66	13.8	43.	126.
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/30/91-09/12/95	132	60.	58.886	88.	21.	148.85	12.2	43.	51.	68.	73.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	07/30/92-09/12/95	44	71.	69.955	80.	54.	34.463	5.871	59.	69.	74.75	76.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/29/92-09/12/95	118	8.3	8.506	10.8	6.2	0.819	0.905	7.6	7.9	9.1	9.91
00300	OXYGEN, DISSOLVED MG/L	05/30/91-08/21/91	16	8.15	8.188	8.7	7.5	0.073	0.27	7.85	8.1	8.275	8.63
00400	PH (STANDARD UNITS)	05/30/91-09/12/95	133	7.55	7.557	8.72	6.69	0.109	0.33	7.174	7.35	7.69	7.966
00400	CONVERTED PH (STANDARD UNITS)	05/30/91-09/12/95	133	7.55	7.447	8.72	6.69	0.121	0.348	7.174	7.35	7.69	7.966
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/91-09/12/95	133	0.028	0.036	0.204	0.002	0.001	0.028	0.011	0.02	0.045	0.067
00500	RESIDUE, TOTAL (MG/L)	05/30/91-09/12/95	126	74.	82.706	610.	2.	2958.401	54.391	56.	63.	86.25	117.3
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	114	18.	19.289	50.	2.5	65.354	8.084	10.	14.	23.25	30.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/30/91-09/12/95	114	57.	65.605	580.	6.	2882.046	53.685	40.5	48.	70.	89.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/91-09/12/95	126	18.	31.841	842.	4.	6007.047	77.505	7.	10.	29.	53.3
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/27/91-09/12/95	112	3.	5.165	94.	1.	89.362	9.453	1.5	2.	5.	8.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/27/91-09/12/95	112	14.	27.536	748.	3.	5266.629	72.572	5.3	8.25	24.	43.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/91-09/12/95	129	0.04	0.051	0.23	0.02	0.001	0.036	0.02	0.02	0.06	0.09
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	129	0.01	0.016	0.1	0.005	0.	0.016	0.005	0.005	0.02	0.03
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	05/30/91-09/12/95	130	0.36	0.349	0.54	0.03	0.009	0.093	0.23	0.298	0.42	0.46
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/30/91-09/12/95	129	0.4	0.481	1.5	0.2	0.047	0.217	0.3	0.3	0.6	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	129	0.1	0.123	1.2	0.04	0.013	0.116	0.06	0.08	0.13	0.19
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	125	1400.	2507.632	8000.	50.	6027230.928	2455.042	300.	600.	3700.	8000.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	125	3.146	3.146	3.903	1.699	0.284	0.533	2.477	2.778	3.568	3.903
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	N =		1399.9								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/30/91-09/12/95	129	0.05	0.059	0.52	0.02	0.002	0.049	0.03	0.04	0.06	0.09
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/92-06/21/94	63	15.3	17.59	96.	2.	181.59	13.476	6.4	10.	21.	32.6

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-8/01-10/14			-10/15-4/30-			5/01-7/31			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	35	7	$0.2\bar{0}$	8	0	0.00	4	0	0.00	23	7	0.30			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	118	0	0.00	29	0	0.00	15	0	0.00	74	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	16	0	0.00	5	0	0.00				11	0	0.00			
00400	PH	Other-Hi Lim.	9.	133	0	0.00	34	0	0.00	13	0	0.00	86	0	0.00			
		Other-Lo Lim.	6.5	133	0	0.00	34	0	0.00	13	0	0.00	86	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	129	0	0.00	34	0	0.00	12	0	0.00	83	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	130	0	0.00	34	0	0.00	12	0	0.00	84	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	125	119	0.95	33	31	0.94	13	12	0.92	79	76	0.96			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	63	1	0.02	20	0	0.00	7	0	0.00	36	1	0.03			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1991 - Station BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	16	21.5	21.806	24.6	18.8	3.086	1.757	19.22	20.575	23.25	24.53
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/30/91-09/12/95	16	59.	58.5	67.	46.	26.267	5.125	51.6	55.	61.	67.
00400	PH (STANDARD UNITS)	05/30/91-09/12/95	16	7.56	7.547	8.05	7.17	0.049	0.222	7.268	7.388	7.66	7.931
00400	CONVERTED PH (STANDARD UNITS)	05/30/91-09/12/95	16	7.56	7.498	8.05	7.17	0.052	0.228	7.268	7.387	7.66	7.931
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/91-09/12/95	16	0.028	0.032	0.068	0.009	0.	0.015	0.012	0.022	0.041	0.055
00500	RESIDUE, TOTAL (MG/L)	05/30/91-09/12/95	16	74.	77.125	146.	31.	866.517	29.437	37.3	59.5	90.	127.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	4	19.	22.75	36.	17.	79.583	8.921	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	05/30/91-09/12/95	4	71.	76.25	110.	53.	578.917	24.061	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/91-09/12/95	15	20.	25.533	72.	6.	423.41	20.577	6.6	8.	38.	60.6
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/27/91-09/12/95	2	4.5	4.5	8.	1.	24.5	4.95	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/27/91-09/12/95	2	25.	25.	43.	7.	648.	25.456	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/91-09/12/95	16	0.05	0.046	0.1	0.02	0.001	0.028	0.02	0.02	0.06	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	16	0.01	0.015	0.04	0.005	0.	0.012	0.005	0.005	0.02	0.04
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	16	0.34	0.328	0.48	0.17	0.011	0.105	0.177	0.213	0.4	0.48
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/30/91-09/12/95	16	0.4	0.45	0.9	0.2	0.035	0.186	0.27	0.3	0.6	0.76
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	16	0.105	0.112	0.24	0.04	0.004	0.062	0.04	0.07	0.15	0.233
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	14	2750.	3082.429	7200.	50. 4	1730753.341	2175.03	325.	951.	4900.	6350.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	14	3.439		3.857	1.699	0.322	0.567	2.239	2.976	3.689	3.799
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	N =		1956.629								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/30/91-09/12/95	16	0.05	0.063	0.12	0.04	0.001	0.03	0.04	0.04	0.068	0.12

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	31	18.9	19.106	24.2	11.1	11.44	3.382	14.86	17.	21.8	23.48
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/30/91-09/12/95	31	56.	56.903	70.	32.	76.224	8.731	47.4	50.	64.	69.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/29/92-09/12/95	33	8.3	8.685	10.2	7.6	0.661	0.813	7.7	8.1	9.3	10.1
00400	PH (STANDARD UNITS)	05/30/91-09/12/95	33	7.58	7.563	8.07	7.02	0.045	0.211	7.296	7.41	7.68	7.804
00400	CONVERTED PH (STANDARD UNITS)	05/30/91-09/12/95	33	7.58	7.512	8.07	7.02	0.047	0.217	7.296	7.41	7.68	7.804
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/91-09/12/95	33	0.026	0.031	0.095	0.009	0.	0.017	0.016	0.021	0.039	0.051
00500	RESIDUE, TOTAL (MG/L)	05/30/91-09/12/95	26	76.	76.731	118.	56.	186.845	13.669	58.1	67.75	84.25	91.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	26	20.	19.615	28.	9.	25.206	5.021	12.7	15.75	24.	26.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/30/91-09/12/95	26	55.5	57.115	92.	38.	153.946	12.408	42.7	46.75	63.5	74.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/91-09/12/95	26	16.5	19.885	49.	6.	115.146	10.731	7.4	13.5	27.25	36.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/27/91-09/12/95	26	3.	3.077	8.	1.	2.714	1.647	1.	2.	4.	5.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/27/91-09/12/95	26	14.	16.808	41.	5.	86.242	9.287	6.4	10.75	23.25	31.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/91-09/12/95	29	0.04	0.037	0.09	0.02	0.	0.018	0.02	0.02	0.04	0.06
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	29	0.01	0.014	0.03	0.005	0.	0.008	0.005	0.01	0.02	0.03
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	29	0.42	0.412	0.53	0.3	0.004	0.061	0.34	0.355	0.45	0.51
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/30/91-09/12/95	29	0.4	0.417	0.8	0.2	0.016	0.128	0.3	0.3	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	29	0.1	0.113	0.25	0.07	0.002	0.043	0.07	0.08	0.13	0.18
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	28	2150.	3157.143	8000.	50.	7774947.09	2788.359	185.	925.	5150.	8000.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	28	3.332	3.237	3.903	1.699	0.367	0.606	2.241	2.966	3.71	3.903
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		1723.899								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/30/91-09/12/95	29	0.05	0.045	0.07	0.02	0.	0.014	0.02	0.04	0.06	0.06

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station BOWA0010

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	34	21.45	20.697	25.	12.1	10.416	3.227	16.65	18.725	23.05	24.65
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/30/91-09/12/95	34	64.	61.324	88.	28.	170.165	13.045	41.5	54.5	70.	74.5

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/29/92-09/12/95	34	8.25	8.294	10.6	6.8	0.727	0.852	7.25	7.7	8.75	9.7
00400	PH (STANDARD UNITS)	05/30/91-09/12/95	32	7.58	7.515	7.97	6.69	0.084	0.29	7.146	7.295	7.71	7.882
00400	CONVERTED PH (STANDARD UNITS)	05/30/91-09/12/95	32	7.58	7.405	7.97	6.69	0.097	0.311	7.146	7.295	7.71	7.882
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/91-09/12/95	32	0.026	0.039	0.204	0.011	0.001	0.037	0.013	0.02	0.051	0.071
00500	RESIDUE, TOTAL (MG/L)	05/30/91-09/12/95	34	70.	72.824	154.	2.	608.816	24.674	49.5	60.75	82.25	94.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	34	16.5	16.647	40.	5.	57.084	7.555	6.5	11.	22.	26.5
00510	RESIDUE, TOTAL FIXED (MG/L)	05/30/91-09/12/95	34	57.	58.824	131.	6.	448.271	21.172	40.5	48.5	68.5	76.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/91-09/12/95	35	19.	21.543	91.	8.	236.138	15.367	9.	11.	25.	34.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/27/91-09/12/95	34	3.	3.941	13.	2.	4.784	2.187	2.	2.75	5.	6.5
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/27/91-09/12/95	34	15.	17.441	78.	5.	181.224	13.462	7.	9.	19.25	29.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/91-09/12/95	35	0.05	0.053	0.18	0.02	0.001	0.034	0.02	0.02	0.07	0.104
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	35	0.01	0.013	0.07	0.005	0.	0.013	0.005	0.005	0.02	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	36	0.33	0.34	0.54	0.03	0.01	0.102	0.19	0.3	0.418	0.44
00625	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	05/30/91-09/12/95	35	0.5	0.549	1.2	0.3	0.05	0.223	0.3	0.4	0.6	0.88
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	35	0.1	0.108	0.27	0.05	0.002	0.043	0.07	0.08	0.12	0.166
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	32	1450.	1862.5	8000.	100.	3246935.484	1801.925	300.	425.	2575.	3670.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	32	3.161	3.072	3.903	2.	0.203	0.45	2.477	2.626	3.411	3.565
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAT	N =		1180.376								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/30/91-09/12/95	35	0.05	0.051	0.09	0.02	0.	0.015	0.03	0.04	0.06	0.074

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	24	20.3	18.933	24.	12.1	17.195	4.147	12.9	14.4	22.9	23.9
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	05/30/91-09/12/95	23	59.	59.304	83.	32.	246.221	15.691	37.4	43.	72.	79.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/29/92-09/12/95	23	8.4	8.526	10.8	6.2	1.046	1.023	7.64	7.7	9.3	9.9
00400	PH (STANDARD UNITS)	05/30/91-09/12/95	24	7.81	7.885	8.72	7.31	0.179	0.423	7.39	7.512	8.285	8.53
00400	CONVERTED PH (STANDARD UNITS)	05/30/91-09/12/95	24	7.81	7.725	8.72	7.31	0.205	0.453	7.39	7.512	8.285	8.53
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/91-09/12/95	24	0.016	0.019	0.049	0.002	0.	0.014	0.003	0.005	0.031	0.041
00500	RESIDUE, TOTAL (MG/L)	05/30/91-09/12/95	24	72.	80.708	160.	49.	836.824	28.928	51.5	58.5	87.5	133.5
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	24	20.	22.75	37.	12.	56.109	7.491	15.	17.	29.75	36.
00510	RESIDUE, TOTAL FIXED (MG/L)	05/30/91-09/12/95	24	49.5	57.958	123.	31.	582.737	24.14	36.5	39.75	66.5	100.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/91-09/12/95	24	15.	27.917	170.	5.	1295.993	36.	7.	10.25	24.25	69.5
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/27/91-09/12/95	24	3.	4.833	26.	1.	29.101	5.395	1.5	2.	4.	11.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/27/91-09/12/95	24	11.5	23.083	144.	3.	939.384	30.649	6.	7.5	20.5	58.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/91-09/12/95	24	0.04	0.047	0.13	0.02	0.001	0.03	0.02	0.02	0.068	0.09
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	24	0.01	0.018	0.08	0.005	0.	0.018	0.005	0.005	0.028	0.04
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	24	0.3	0.318	0.48	0.16	0.006	0.077	0.24	0.27	0.37	0.445
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	05/30/91-09/12/95	24	0.4	0.454	0.9	0.2	0.025	0.159	0.3	0.3	0.6	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	24	0.08	0.1	0.31	0.04	0.004	0.065	0.04	0.053	0.115	0.19
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	24	950.	1729.167	8000.	100. 4	1337807.971	2082.74	200.	525.	1600.	5550.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	24	2.977	2.985	3.903	2.	0.236	0.486	2.301	2.719	3.204	3.735
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	V =		966.023								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/30/91-09/12/95	24	0.04	0.046	0.13	0.02	0.001	0.025	0.025	0.03	0.05	0.08

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/91-09/12/95	28	18.95	18.668	24.8	9.3	16.25	4.031	10.79	17.825	21.55	23.43
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/30/91-09/12/95	28	62.5	58.	79.	21.	201.259	14.187	37.3	49.25	69.5	73.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/29/92-09/12/95	28	8.2	8.536	10.8	7.2	0.928	0.963	7.29	7.925	9.175	10.21

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	05/30/91-09/12/95	28	7.315	7.323	7.73	6.75	0.048	0.219	7.075	7.173	7.438	7.621
00400	CONVERTED PH (STANDARD UNITS)	05/30/91-09/12/95	28	7.315	7.266	7.73	6.75	0.051	0.227	7.075	7.172	7.438	7.621
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/91-09/12/95	28	0.048	0.054	0.178	0.019	0.001	0.032	0.024	0.037	0.067	0.085
00500	RESIDUE, TOTAL (MG/L)	05/30/91-09/12/95	26	75.	106.885	610.	61.	11710.026	108.213	62.4	65.75	100.25	172.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/30/91-09/12/95	26	17.	18.692	50.	2.5	110.282	10.502	7.05	11.	22.5	34.8
00510	RESIDUE, TOTAL FIXED (MG/L)	05/30/91-09/12/95	26	59.5	88.385	580.	24.	10924.166	104.519	45.7	49.75	80.75	144.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/91-09/12/95	26	22.	64.923	842.	4.	26695.514	163.388	4.7	7.	38.25	130.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/27/91-09/12/95	26	4.5	9.212	94.	1.5	336.243	18.337	1.5	1.5	6.25	21.1
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/27/91-09/12/95	26	17.5	55.769	748.	3.	21061.385	145.125	3.7	5.	32.	109.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/91-09/12/95	25	0.05	0.069	0.23	0.02	0.003	0.053	0.02	0.04	0.08	0.15
00615	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	05/30/91-09/12/95	25	0.02	0.023	0.1	0.005	0.001	0.023	0.005	0.01	0.03	0.058
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/91-09/12/95	25	0.37	0.331	0.48	0.15	0.008	0.091	0.174	0.26	0.395	0.436
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/30/91-09/12/95	25	0.4	0.508	1.5	0.2	0.102	0.32	0.2	0.3	0.6	1.04
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/91-09/12/95	25	0.1	0.185	1.2	0.05	0.056	0.236	0.06	0.075	0.18	0.404
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	27	1400.	2992.593	8000.	100.	8649173.789	2940.948	280.	500.	4000.	8000.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	05/30/91-09/12/95	27	3.146	3.208	3.903	2.	0.308	0.555	2.442	2.699	3.602	3.903
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	V =		1614.13								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/30/91-09/12/95	25	0.06	0.094	0.52	0.04	0.009	0.097	0.05	0.05	0.09	0.176

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BOWA0011

NPS Station ID: BOWA0011 Location: GILLS CREEK

LAT/LON: 37.100003/ -79.733337

Depth of Water: 0

RF1 Mile Point: 0.580

RF3 Mile Point: 3.46

Elevation: 0

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 03010101 Major Basin: T/SMITH MOUNTAIN LAKE

Minor Basin: RT 834 BRDG 6 MI E OF BURNT CHIMNEY RF1 Index: 03010101049

RF3 Index: 03010101002203.46

AT BRIDGE ON VA RT 834 APPROX 6 MI E OF BURNT CHIMNEY

Agency: 11EPALES FIPS State/County: 51000 VIRGINIA/ STORET Station ID(s): 5110C1 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.01

On/Off RF1: OFF On/Off RF3:

Date Created: / /

Parameter Inventory for Station: BOWA0011

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/15/73-06/15/74	14	0.031	0.032	0.068	0.01	0.	0.014	0.013	0.027	0.035	0.057
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/15/73-06/15/74	14	0.003	0.004	0.008	0.001	0.	0.002	0.001	0.002	0.005	0.008
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/15/73-06/15/74	14	0.338	0.317	0.43	0.12	0.01	0.101	0.135	0.249	0.42	0.425
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	07/15/73-06/15/74	14	0.375	0.478	1.	0.1	0.083	0.289	0.15	0.25	0.8	0.945
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/15/73-06/15/74	14	0.345	0.321	0.44	0.12	0.011	0.103	0.135	0.248	0.42	0.435
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/15/73-06/15/74	14	0.103	0.119	0.31	0.03	0.007	0.082	0.033	0.061	0.134	0.295
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/73-06/15/74	14	0.023	0.025	0.052	0.01	0.	0.012	0.011	0.015	0.033	0.046

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-8/01-10/14			·10/15-4/30·			5/01-7/31-			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	14	0	$0.0\bar{0}$	2	0	0.00	7	0	0.00	5	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	2	0	0.00	7	0	0.00	5	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	2	0	0.00	7	0	0.00	5	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0012

NPS Station ID: BOWA0012 LAT/I Location: SMITH MTN. LAKE, BUOY 18B FRANKLIN COUNTY LAT/LON: 37.056671/ -79.739170

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Hides: HUC: 03010101 Major Basin: 03-SOUTHEAST Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101

RF3 Index: 03010101002203.42

VIRGINIA STATE WATER CONTROL BOARD RIVER: BLACKWATER RIVER SEC

AMBIENT MONIORING SECTION: 05

Depth of Water: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 3.42

Elevation: 0

ONIORING BASIN: 4A ROANOKE REGION: 2 WEST CENTRAL TOPO MAP #: 0044 TOPO MAP NAME: MONETA, SW, VA

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN STORET Station ID(s): 4ABWR018.20 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 0.90
Distance from RF3: 0.07

On/Off RF1: On/Off RF3:

Date Created: 10/10/87

Parameter Inventory for Station: BOWA0012

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/71-06/15/76	41	26.7	25.11	31.1	16.7	11.35	3.369	18.42	24.4	26.95	28.3
00300	OXYGEN, DISSOLVED MG/L	07/07/71-06/15/76	41	8.4	8.512	11.8	5.4	1.416	1.19	7.16	8.	9.	10.12
00310	BOD, 5 DAY, 20 DEG C MG/L	06/29/72-10/29/74	3	1.	1.567	2.9	0.8	1.343	1.159	**	**	**	**
00400	PH (STANDARD UNITS)	07/07/71-06/15/76	41	8.5	8.388	9.3	7.2	0.253	0.503	7.7	8.	8.7	9.
00400	CONVERTED PH (STANDARD UNITS)	07/07/71-06/15/76	41	8.5	8.074	9.3	7.2	0.353	0.594	7.7	8.	8.7	9.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/71-06/15/76	41	0.003	0.008	0.063	0.001	0.	0.013	0.001	0.002	0.01	0.02
00403	PH, LAB, STANDARD UNITS SU	07/20/72-07/20/72	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/20/72-07/20/72	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/72-07/20/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	07/20/72-07/20/72	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/20/72-07/20/72	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	06/29/72-06/29/72	1	74.	74.	74.	74.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/72-06/29/72	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/29/72-06/29/72	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFIÈTRABLE (MG/L)	06/29/72-06/29/72	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/29/72-06/29/72	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/29/72-06/29/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	08/11/71-06/15/76	32 ##	0.05	0.058	0.13	0.005	0.001	0.032	0.019	0.05	0.05	0.124
00615	NITRITE NÍTROGEN, TÓTAL (MĜ/L AS N)	08/11/71-06/15/76	32 ##		0.007	0.03	0.005	0.	0.005	0.005	0.005	0.01	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	08/11/71-06/15/76	32	0.05	0.127	1.269	0.005	0.068	0.261	0.01	0.025	0.1	0.22
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	08/11/71-06/15/76	32	0.2	0.273	0.8	0.05	0.039	0.197	0.1	0.1	0.375	0.67
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/71-06/15/76	5 ##	2.5	2.5	6.	0.5	4.625	2.151	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/71-06/15/76	7 ##	£ 5.	3.714	5.	0.5	4.821	2.196	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/11/71-06/15/76	9 ##	5.	5.556	10.	5.	2.778	1.667	5.	5.	5.	10.
01042	COPPER, TOTAL (UG/L AS CU)	08/11/71-06/15/76	9 ##	ŧ 5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01051	LEAD, TOTAL (UG/L AS PB)	08/11/71-06/15/76	9 ##	£ 5.	5.944	17.	1.5	18.528	4.304	1.5	5.	5.	17.
01065	NICKÉL, DISSÔLVED (UG/Ĺ AS NI)	08/01/73-06/15/76	4 ##	£ 50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/71-06/15/76	9 ##	£ 5.	9.444	20.	5.	40.278	6.346	5.	5.	15.	20.
31616	FECAL COLIFÒRM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-06/15/76	38 ##	50.	53.947	200.	50.	592.105	24.333	50.	50.	50.	50.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/07/71-06/15/76	38 ##	1.699	1.715	2.301	1.699	0.01	0.098	1.699	1.699	1.699	1.699
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		51.858								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	08/11/71-06/15/76	32 ##	0.05	0.066	0.2	0.05	0.002	0.045	0.05	0.05	0.05	0.17
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/11/71-06/15/76	32 ##	0.05	0.032	0.12	0.005	0.001	0.027	0.005	0.01	0.05	0.05

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0012

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	08/11/71-06/15/76	9 ##	0.25	0.25	0.25	0.25	0.	0.	0.25	0.25	0.25	0.25

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-8/01-10/14			10/15-4/30			5/01-7/31			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	41	0	$0.0\bar{0}$	17	0	0.00	4	0	0.00	20	0	0.00			
00400	PH	Other-Hi Lim.	9.	41	6	0.15	17	2	0.12	4	0	0.00	20 20	4	0.20			
		Other-Lo Lim.	6.5	41	0	0.00	17	0	0.00	4	0	0.00	20	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	1	1.00							1	1	1.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	32	0	0.00	14	0	0.00	3	0	0.00	15	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	32	0	0.00	14	0	0.00	3	0	0.00	15	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	3	0	0.00				2	0	0.00			
		Drinking Water	50.	5	0	0.00	3	0	0.00				2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2 &	0	0.00	2	0	0.00									
		Drinking Water	5.	2 &	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00	6	0	0.00				3	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	9	0	0.00	6	0	0.00				3	0	0.00			
		Drinking Water	1300.	9	0	0.00	6	0	0.00				3	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	9	0	0.00	6	0	0.00				3	0	0.00			
		Drinking Water	15.	9	1	0.11	6	0	0.00				3	1	0.33			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	9	0	0.00	6	0	0.00				3	0	0.00			
		Drinking Water	5000.	9	0	0.00	6	0	0.00				3	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	38	1	0.03	14	0	0.00	4	0	0.00	20	1	0.05			
71900	MERCURY, TOTAL	Fresh Acute	2.4	9	0	0.00	6	0	0.00				3	0	0.00			
	•	Drinking Water	2.	9	0	0.00	6	0	0.00				3	0	0.00			
		Fresh Acute		38 9 9	1 0 0	0.00	14 6 6	0 0 0	0.00	4	0	0.00	20 3 3	1 0 0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BOWA0013

NPS Station ID: BOWA0013 LAT/LON: 37.063059/ -79.744448

Location: SMITH MTN LAKE-STA #21,BUOY 50 (FRANKLIN CO)

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

Description:

RMI-Miles: HUC: 03010101 Major Basin: 03-SOUTHEAST

Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101025 RF3 Index: 03010101002201.86

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 13.490 RF3 Mile Point: 1.85

INTENSIVE SURVEY NO. 835104 BASIN: 4A ROANOKE IN: 05 TOPO MAP #: 0044 TOPO MAP NAME: MONETA SW, VA VIRGINIA STATE WATER CONTROL BOARD SECTION: 05

RIVER: BLACKWATER RIVER ALSO INTENSIVE SURVEY: 925102

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN STORET Station ID(s): 4ABWR017.42 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.04

REGION: 2 WEST CENTRAL

On/Off RF1: OFF On/Off RF3:

Date Created: 12/12/87

Parameter Inventory for Station: BOWA0013

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	127	17.9	18.287	30.4	5.8	32.685	5.717	11.	14.2	22.	27.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/19/88-04/26/94	13	7.3	12.562	48.	2.2	208.049	14.424	2.36	3.05	17.55	42.8
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/06/94-10/24/96	9	8.8	10.556	34.	4.4	87.85	9.373	4.4	4.5	11.65	34.
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/14/93-10/24/96	4	0.5	0.675	1.2	0.5	0.123	0.35	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/29/90-08/29/90	3	45.	51.333	71.	38.	302.333	17.388	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	58	75.	77.086	127.	20.	470.326	21.687	55.	64.75	90.	105.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	34	78.	79.529	101.	61.	112.075	10.587	65.5	73.75	85.	97.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/92-10/24/96	17	8.6	8.294	11.5	1.8	5.312	2.305	4.6	7.9	9.55	10.86
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	109	7.	6.233	12.2	0.	11.719	3.423	0.4	3.65	8.8	10.
00310	BOD, 5 DAY, 20 DEG C MG/L	04/27/89-04/27/89	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/27/89-10/04/89	5	8.	9.6	15.	5.	17.8	4.219	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	127	7.2	7.324	9.9	6.	0.777	0.881	6.2	6.61	7.8	8.7
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	127	7.2	6.766	9.9	6.	1.09	1.044	6.2	6.61	7.8	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	127	0.063	0.171	1.	0.	0.054	0.233	0.002	0.016	0.245	0.631
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	113	7.	7.117	8.4	6.3	0.245	0.495	6.6	6.8	7.3	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	113	7.	6.908	8.4	6.3	0.289	0.537	6.6	6.8	7.3	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	113	0.1	0.124	0.501	0.004	0.012	0.109	0.013	0.05	0.158	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	112	29.	28.973	53.	2.	73.342	8.564	19.3	24.	33.	40.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	112	68.	416.259	13560.	40.	4319790.698	2078.411	52.	60.	81.	103.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	112	22.	109.527	4026.	5.	285655.711	534.468	12.3	18.	28.75	34.7
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	111	47.	309.559	9736.	10.	2437300.722	1561.186	28.	38.	61.	83.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/26/94-04/26/94	2	49.	49.	60.	38.	242.	15.556	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	112	8.	15.375	160.	0.5	459.714	21.441	2.	3.	18.75	38.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	112	3.	4.165	22.	0.	11.718	3.423	1.5	2.	5.	9.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	112	5.	11.625	138.	0.	333.376	18.259	1.	2.5	13.75	30.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	118	0.05	0.116	1.13	0.02	0.028	0.167	0.02	0.04	0.1	0.301
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	118	0.01	0.011	0.08	0.005	0.	0.01	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	118	0.24	0.275	1.16	0.02	0.052	0.229	0.02	0.078	0.433	0.594
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	04/13/83-10/24/96	118	0.4	0.492	1.7	0.1	0.06	0.244	0.3	0.3	0.5	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	118	0.05	0.061	0.4	0.005	0.003	0.055	0.02	0.03	0.073	0.11
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	64	0.02	0.052	0.9	0.005	0.014	0.119	0.005	0.01	0.05	0.1

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0013

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/19/88-08/29/90	11	2.4	2.845	4.7	1.8	1.087	1.042	1.8	2.1	3.4	4.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-04/26/94	53	30.	31.585	71.	20.	98.901	9.945	22.	26.	32.5	42.
00940	CHLORIDE, TOTAL IN WATER MG/L	04/27/89-10/24/96	22	3.	3.455	5.	2.5	0.688	0.83	2.5	3.	4.	5.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	22	4.	4.045	7.	2.5	1.522	1.234	2.5	3.	5.	6.
00951	FLUORIDÉ, TOTAL (MG/L AS F)	04/27/89-08/29/90	8 ##	0.075	0.069	0.12	0.025	0.002	0.042	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/27/89-08/29/90	8	9.5	8.413	12.2	2.3	11.653	3.414	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	82 ##		3.335	21.	0.5	11.303	3.362	0.5	0.5	5.	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/13/83-10/29/96	8 ##		7.775	24.	1.	61.991	7.873	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/18/88-10/19/93	6 ##		4.5	5.	2.	1.5	1.225	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	09/14/93-10/29/96	1 ##		2.5	2.5	2.5	0.	0	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	82 ##		2.491	5.	0.1	4.439	2.107	0.5	0.5	5.	5.
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/13/83-10/29/96	8 ##		0.897	2.5	0.125	1.002	1.001	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/13/83-10/29/96	8	49.5	45.788	61.	27.	156.727	12.519	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	82 ##		8.421	41.	0.5	100.052	10.003	0.5	2.	5.	25.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	82 ##		9.488	27.	2.	62.222	7.888	5.	5.	10.	25.
01042	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/13/83-10/29/96	7	24.9	21.557	29.	12.	53.84	7.338	**	**	**	2J. **
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	81	400.	1788.444	50000.		0501867.075	6364.108	100.	177.	975.	3320.
01043	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	82 ##		5.049	32.	0.5	25.991	5.098	1.	2.	5.	6.7
01051	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/13/83-10/29/96	8	27.	34.963	99.1	9.	731.566	27.047	**	∠. **	J. **	V. /
01052	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS FB DK1 WG1)	08/17/89-10/29/96	4	597.5	594.5	903.	280.	84537.667	290.754	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	81	30.	129.585	1400.	5.	58978.109	242.854	20.	23.4	95.	390.
01055	THALLIUM, TOTAL (UG/L AS TL)	10/18/88-10/19/93	6##		8.5	10.	1.	13.5	3.674	2U. **	23. 4 **	7J. **	370. **
01039		04/13/83-10/06/94	81 ##		15.827	50.	2.5	224.289	14.976	5.	5.		50.
	NICKEL, TOTAL IN POTTOM DEPOSITS (MC///C DRV WCT)		7	23.6	22.971	31.2	12.	38.432	6.199	3. **	3. **	25. **	30. **
01068 01092	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/13/83-10/06/94 04/13/83-10/06/94	82 ##		34.957	760.	2.5	10129.841	100.647	5.	5.		4.4
01092	ZINC, TOTAL (UG/L AS ZN)		82 ##	10. 117.	101.063	760. 142.	22.5	1537.174	39.207	3. **	J.	25.	44.
	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/13/83-10/29/96	-				22. 25.			**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/06/94-10/29/96	1 ##		25.	25.		0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/06/94-10/29/96		21500.	21500.	21500.	21500.	0.	0.		0.5	5.	
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	77 ##		4.604	29.	0.5	30.825	5.552	0.5			10.
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/13/83-10/29/96	9	2.5	3.389	12.	0.1	14.451	3.801	0.1	0.5 **	5.2	12.
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/06/94-10/29/96		33300.	33300.	33300.	33300.	0.	0.				
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/28/90-10/24/96	19 ##		76.316	400.	50.	6491.228	80.568	50.	50.	50.	100.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/28/90-10/24/96	19##	1.699		2.602	1.699	0.051	0.226	1.699	1.699	1.699	2.
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	N =	0.05	62.235	10.41	6.05	24.60	5,000	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/26/90-10/03/90	4	8.85	10.99	19.41	6.85	34.68	5.889	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/26/90-10/03/90	3	6.	9.743	18.02	5.21	51.533	7.179	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/26/90-10/03/90	3	1.32	1.753	2.64	1.3	0.59	0.768	**	**	**	**
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/26/90-10/03/90	4	1.43	1.413	1.6	1.19	0.04	0.199	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	09/14/93-10/29/96	1 ##		2.5	2.5	2.5	0.	0.		**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/12/84-10/29/96	3 ##			45.	0.005	674.85	25.978	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/13/83-07/13/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/14/93-10/29/96	1 ##		15.	15.	15.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/12/84-10/29/96	3 ##		7.	20.	0.5	126.75	11.258	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	3 ##		3.367	10.	0.05	33.001	5.745	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	3 ##		3.367	10.	0.05	33.001	5.745			**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	3 ##		5.033	15.	0.05	74.501	8.631	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/12/84-10/29/96	3 ##		3.367	10.	0.05	33.001	5.745	**			**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	3 ##		5.033	15.	0.05	74.501	8.631	**	**	**	
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/12/84-10/29/96	3 ##		30.333	90.	0.5	2670.083	51.673	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/12/84-10/29/96	3 ##		3.367	10.	0.05	33.001	5.745	**	**	**	**
39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	07/12/84-10/29/96	3 ##		5.333	15.	0.5	70.083	8.372	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/14/93-10/06/94	.7	30.	34.857	47.	24.	101.81	10.09	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/13/91-10/24/96	17 ##			0.07	0.005	0.	0.016	0.005	0.005	0.015	0.03
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	86 ##		0.148	0.3	0.045	0.001	0.025	0.15	0.15	0.15	0.15
71921	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/13/83-10/29/96	8 ##			2.5	0.05	0.711	0.843	**	**	**	**
75045	HEPTACHLOR EPOXIDE SEDIMENT, DRY, WT, UG/KG	09/14/93-10/29/96	1 ##		10.	10.	10.	0.	0.	**	**	**	**
79799	DICOFOL (KELTHANE) SEDIMENT, DRY, WT, UG/KG	09/14/93-10/29/96	1 ##		45.	45.	45.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	10/05/92-10/05/92	3	6900.	6866.667	6900.	6800.	3333.333	57.735	**	**	**	**
82078	TURBIDITY, FIELD NEPHÈLOMETRIC TURBIDITY UNITS, NTU	09/14/93-10/19/93	5	10.	8.82	16.6	3.	31.482	5.611	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-8/01-10/14-			-10/15-4/30-			5/01-7/31-			n/a	
Paramete	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	13	0	$0.0\bar{0}$	2	0	0.00	11	0	0.00			-			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	9	0	0.00	3	0	0.00	4	0	0.00	2	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	17	1	0.06	8	0	0.00	7	1	0.14	2	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	109	28	0.26	31	8	0.26	33	2	0.06	45	18	0.40			
00400	PH	Other-Hi Lim.	9.	127	5	0.04	40	2	0.05	42	1	0.02	45	2	0.04			
		Other-Lo Lim.	6.5	127	24	0.19	40	6	0.15	42	7	0.17	45	11	0.24			
00403	PH, LAB	Other-Hi Lim.	9.	113	0	0.00	35	0	0.00	40	0	0.00	38	0	0.00			
		Other-Lo Lim.	6.5	113	9	0.08	35	3	0.09	40	3	0.08	38	3	0.08			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	118	0	0.00	38	0	0.00	40	0	0.00	40	0	0.00			
00620	NITRATE NITROGEŃ, TOTAL AS N	Drinking Water	10.	118	0	0.00	38	0	0.00	40	0	0.00	40	0	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	22	0	0.00	10	0	0.00	10	0	0.00	2	0	0.00			
	•	Drinking Water	250.	22	0	0.00	10	0	0.00	10	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	22	0	0.00	10	0	0.00	10	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	5	0	0.00	3	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	82	0	0.00	28	0	0.00	26	0	0.00	28	0	0.00			
	•	Drinking Water	50.	82	0	0.00	28	0	0.00	26	0	0.00	28	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	6	0	0.00	2	0	0.00	4	0	0.00						
	,	Drinking Water	4.	1 &	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	49 &	0	0.00	14	0	0.00	19	0	0.00	16	0	0.00			
		Drinking Water	5.	49 &	0	0.00	14	0	0.00	19	0	0.00	16	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	82	0	0.00	28	0	0.00	26	0	0.00	28	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	68 &	2	0.03	24	0	0.00	16	0	0.00	28	2	0.07			
		Drinking Water	1300.	82	0	0.00	28	0	0.00	26	0	0.00	28	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	82	0	0.00	28	0	0.00	26	0	0.00	28	0	0.00			
		Drinking Water	15.	82	5	0.06	28	1	0.04	26	0	0.00	28	4	0.14			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	2.	1 &	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	81	0	0.00	28	0	0.00	25	0	0.00	28	0	0.00			
		Drinking Water	100.	81	0	0.00	28	0	0.00	25	0	0.00	28	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	82	5	0.06	28	0	0.00	26	0	0.00	28	5	0.18			
		Drinking Water	5000.	82	0	0.00	28	0	0.00	26	0	0.00	28	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	77	3	0.04	24	0	0.00	27	3	0.11	26	0	0.00			
		Drinking Water	50.	77	0	0.00	24	0	0.00	27	0	0.00	26	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	19	1	0.05	8	0	0.00	5	0	0.00	6	1	0.17			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	86	0	0.00	30	0	0.00	28	0	0.00	28	0	0.00			
		Drinking Water	2.	86	0	0.00	30	0	0.00	28	0	0.00	28	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	5	0	0.00	2	0	0.00	3	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1983 - Station BOWA0013

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	10	16.45	16.84	26.1	9.2	30.883	5.557	9.33	12.225	20.875	25.84
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	10	8.3	6.73	12.2	0.2	18.556	4.308	0.2	1.85	9.725	11.96
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	10	7.	7.137	8.5	6.53	0.334	0.578	6.534	6.645	7.35	8.4
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	10	7.	6.916	8.5	6.53	0.388	0.623	6.534	6.645	7.35	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	10	0.1	0.121	0.295	0.003	0.01	0.102	0.006	0.045	0.228	0.293
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	9	7.2	7.4	8.4	6.8	0.24	0.49	6.8	7.1	7.75	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	9	7.2	7.226	8.4	6.8	0.274	0.524	6.8	7.1	7.75	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	9	0.063	0.059	0.158	0.004	0.002	0.046	0.004	0.019	0.079	0.158
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	9	22.	26.556	45.	15.	143.278	11.97	15.	15.5	40.	45.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	9	84.	83.222	103.	57.	304.944	17.463	57.	67.5	101.5	103.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	9	21.	24.889	59.	15.	178.361	13.355	15.	17.5	25.5	59.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	9	59.	58.333	84.	41.	246.75	15.708	41.	42.	71.	84.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	15.	18.056	43.	2.5	235.465	15.345	2.5	2.5	31.5	43.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	5.	5.167	10.	2.5	8.438	2.905	2.5	2.5	8.	10.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	12.	13.722	36.	2.5	147.757	12.156	2.5	2.5	22.	36.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.1	0.078	0.1	0.05	0.001	0.026	0.05	0.05	0.1	0.1
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.01	0.012	0.02	0.005	0.	0.006	0.005	0.008	0.02	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.25	0.338	0.7	0.07	0.08	0.282	0.07	0.085	0.7	0.7
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	9	0.3	0.333	0.5	0.3	0.005	0.071	0.3	0.3	0.35	0.5
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	9	0.03	0.033	0.09	0.005	0.001	0.028	0.005	0.008	0.05	0.09
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	9	0.02	0.132	0.9	0.005	0.085	0.291	0.005	0.008	0.11	0.9
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	9 ##		0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	9 ##	¢ 0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	9	1.	1.278	2.	0.5	0.507	0.712	0.5	0.5	2.	2.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	9 ##		6.333	10.	2.	8.5	2.915	2.	5.	10.	10.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	9	950.	1595.556	4000.	110.	2223077.778	1490.999	110.	180.	3050.	4000.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	9	1.	1.444	4.	0.5	1.215	1.102	0.5	0.75	2.	4.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	9	70.	101.667	450.	5.	18762.5	136.976	5.	20.	115.	450.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	9	10.	14.444	40.	5.	165.278	12.856	5.	5.	25.	40.
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	9	10.	36.667	250.	10.	6400.	80.	10.	10.	10.	250.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	9 ##		0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	9 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	18	17.5	16.611	28.	8.	31.34	5.598	8.	12.375	18.625	28.
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	18	6.	6.367	11.8	1.2	10.871	3.297	1.2	4.25	8.95	11.8
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	16	7.25	7.388	8.9	6.1	1.025	1.013	6.1	6.525	8.475	8.9
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	16	7.05	6.71	8.9	6.1	1.515	1.231	6.1	6.525	8.475	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	16	0.089	0.195	0.794	0.001	0.069	0.262	0.001	0.005	0.3	0.794
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	9	6.7	6.833	8.1	6.3	0.362	0.602	6.3	6.35	7.2	8.1
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	9	6.7	6.609	8.1	6.3	0.419	0.648	6.3	6.35	7.2	8.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	9	0.2	0.246	0.501	0.008	0.034	0.185	0.008	0.079	0.45	0.501
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	9	23.	24.	32.	16.	37.	6.083	16.	18.5	30.5	32.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	9	62.	74.333	154.	52.	957.75	30.948	52.	60.	76.5	154.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	9	21.	23.667	32.	17.	35.5	5.958	17.	19.	31.	32.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	9	41.	50.667	122.	35.	744.75	27.29	35.	38.	50.	122.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	17.	23.056	88.	2.	719.403	26.822	2.	4.25	29.	88.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	6.	6.389	13.	2.	17.236	4.152	2.	2.25	10.5	13.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	11.	16.944	76.	0.	582.028	24.125	0.	1.25	22.5	76.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.1	0.117	0.3	0.05	0.007	0.083	0.05	0.05	0.15	0.3
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.02	0.027	0.08	0.005	0.001	0.024	0.005	0.008	0.04	0.08
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	04/13/83-10/24/96	9	0.43	0.408	0.76	0.05	0.064	0.252	0.05	0.17	0.66	0.76
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/13/83-10/24/96	9	0.4	0.4	0.7	0.1	0.028	0.166	0.1	0.3	0.5	0.7

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Annual Analysis for 1984 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Nariance Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	9	0.03	0.027	0.05	0.005	0.	0.016	0.005	0.008	0.04	0.05
00671	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	9	0.02	0.023	0.07	0.005	0.	0.021	0.005	0.008	0.035	0.07
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	9 ##	0.5	0.722	2.	0.5	0.257	0.507	0.5	0.5	0.75	2.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	9 ##	0.5	1.056	3.	0.5	0.778	0.882	0.5	0.5	1.5	3.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	9 ##	5.	6.111	10.	5.	4.861	2.205	5.	5.	7.5	10.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	9	1000.	1271.111	4800.	260.	1998311.111	1413.616	260.	350.	1450.	4800.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	9	3.	4.222	15.	1.	18.694	4.324	1.	1.5	5.	15.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	9	30.	97.778	440.	20.	19519.444	139.712	20.	25.	140.	440.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	9	10.	23.889	50.	5.	398.611	19.965	5.	10.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	9 ##	5.	7.222	10.	5.	6.944	2.635	5.	5.	10.	10.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	9 ##	0.5	0.556	1.	0.5	0.028	0.167	0.5	0.5	0.5	1.
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	9 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	9	17.5	15.922	22.5	8.2	24.349	4.935	8.2	11.	19.8	22.5
00300	OXYGEN, DISSOLVED MĜ/L	04/13/83-04/26/94	9	6.2	5.6	8.6	0.4	9.59	3.097	0.4	2.45	8.35	8.6
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	11	6.55	6.59	7.1	6.15	0.107	0.327	6.166	6.25	6.9	7.08
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	11	6.55	6.488	7.1	6.15	0.118	0.344	6.166	6.25	6.9	7.08
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	11	0.282	0.325	0.708	0.079	0.048	0.218	0.084	0.126	0.562	0.684
00403	PH. LAB. STANDARD UNITS SU	04/13/83-10/24/96	9	6.9	7.033	7.9	6.5	0.193	0.439	6.5	6.65	7.3	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	9	6.9	6.877	7.9	6.5	0.22	0.469	6.5	6.65	7.3	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	9	0.126	0.133	0.316	0.013	0.011	0.103	0.013	0.05	0.225	0.316
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	9	33.	31.	40.	21.	38.	6.164	21.	25.	35.5	40.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	9	70.	70.667	87.	57.	129.25	11.369	57.	60.	83.	87.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	9	25.	23.778	34.	12.	86.194	9.284	12.	13.	34.	34.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	9	53.	46.889	62.	23.	207.111	14.391	23.	32.5	58.5	62.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	8.	9.	21.	2.	42.188	6.495	2.	2.5	14.	21.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	3.	3.222	5.	2.	0.882	0.939	2.	2.5	4.	5.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	5.	6.611	16.	2.5	23.674	4.866	2.5	2.5	10.5	16.
00610p	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	9#	# 0.05	0.094	0.2	0.05	0.004	0.063	0.05	0.05	0.15	0.2
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9#	# 0.005	0.011	0.04	0.005	0.	0.012	0.005	0.005	0.015	0.04
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.34	0.387	1.16	0.06	0.117	0.342	0.06	0.09	0.515	1.16
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/13/83-10/24/96	9	0.4	0.422	0.7	0.3	0.017	0.13	0.3	0.3	0.5	0.7
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	9	0.03	0.037	0.07	0.01	0.001	0.022	0.01	0.02	0.06	0.07
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	9	0.02	0.022	0.05	0.005	0.	0.016	0.005	0.008	0.035	0.05
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	2	11.	11.	20.	2.	162.	12.728	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	2 #		0.3	0.5	0.1	0.08	0.283	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	2	19.5	19.5	38.	1.	684.5	26.163	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	2 #	# 16.	16.	27.	5.	242.	15.556	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	2	25200.	25200.	50000.	400. 1230	080000.	35072.496	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	2	16.5	16.5	32.	1.	480.5	21.92	**	**	**	**
01055	MANĜANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	2	245.	245.	460.	30.	92450.	304.056	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	2#	# 36.	36.	50.	22.	392.	19.799	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	2	80.	80.	140.	20.	7200.	84.853	**	**	**	**
01147	SELENIUM, TÔTAL (UG/L ÁS SE)	04/13/83-10/06/94	1 #		0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	4 #	# 0.15	0.125	0.15	0.05	0.003	0.05	**	**	**	**

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Annual Analysis for 1986 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	15	16.8	16.74	27.	5.8	41.43	6.437	6.04	12.8	22.9	26.82
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	15	7.	5.92	11.2	0.	15.569	3.946	0.	0.2	8.9	10.36
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	15	6.9	7.28	9.9	6.2	1.032	1.016	6.2	6.8	7.7	9.18
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	15	6.9	6.755	9.9	6.2	1.328	1.152	6.2	6.8	7.7	9.18
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	15	0.126	0.176	0.631	0.	0.044	0.21	0.001	0.02	0.158	0.631
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	12	6.8	6.95	8.4	6.4	0.492	0.701	6.4	6.4	7.075	8.37
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	12	6.8	6.674	8.4	6.4	0.575	0.758	6.4	6.4	7.075	8.37
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	12	0.158	0.212	0.398	0.004	0.025	0.159	0.004	0.085	0.398	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	12	32.5	33.	50.	25.	40.727	6.382	25.6	29.	35.	45.8
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	12	70.5	3272.667	13560.	56. 3	3615886.061	5797.921	56.9	63.	8954.75	13434.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	12	25.5	826.083	4026.	10.	2254141.538	1501.38	10.6	13.75	1717.25	3840.3
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	12	55.	2446.583	9736.	10. 1	8782072.265	4333.829	19.	43.5	7172.	9703.9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	12	9.5	18.958	55.	2.5	333.112	18.251	3.25	5.25	36.25	52.3
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	12	4.5	5.625	12.	2.	10.324	3.213	2.15	3.25	7.5	11.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	12	4.5	13.542	43.	1.	227.43	15.081	1.	2.625	28.75	40.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	12 ##		0.121	0.4	0.05	0.017	0.132	0.05	0.05	0.1	0.4
00615p	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	04/13/83-10/24/96	12	0.01	0.009	0.02	0.005	0.	0.004	0.005	0.005	0.01	0.017
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	12	0.285	0.336	0.79	0.025	0.051	0.226	0.025	0.18	0.488	0.718
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	12	0.4	0.425	0.7	0.3	0.011	0.106	0.3	0.4	0.475	0.64
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	12	0.055	0.058	0.12	0.01	0.001	0.034	0.013	0.03	0.087	0.114
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	12	0.03	0.039	0.1	0.005	0.001	0.032	0.007	0.01	0.065	0.097
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	5 #		4.7	21.	0.5	83.075	9.115	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	5 #	# 0.5	0.42	0.5	0.1	0.032	0.179	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	5 #		8.6	41.	0.5	328.05	18.112	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	5 #		8.4	22.	5.	57.8	7.603	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	4	350.	475.	1000.	200.	129166.667	359.398	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	5	1.	6.5	28.	0.5	144.75	12.031	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	4	60.	60.	90.	30.	1200.	34.641	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	5 ##	[#] 50.	43.8	50.	19.	192.2	13.864	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	5	30.	47.8	149.	5.	3556.7	59.638	**	**	**	**
01147	SELENIUM, TOTAL (UG/L ÁS SE)	04/13/83-10/06/94	4 #		0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	5 ##	# 0.15	0.129	0.15	0.045	0.002	0.047	**	**	**	**

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Annual Analysis for 1987 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	15	15.3	17.607	28.5	11.5	38.572	6.211	11.5	13.2	26.2	27.6
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	15	8.5	6.727	9.6	0.3	8.999	3.	0.36	5.4	8.9	9.18
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	15	7.1	6.983	8.04	6.18	0.241	0.491	6.18	6.79	7.2	7.734
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	15	7.1	6.736	8.04	6.18	0.306	0.553	6.18	6.79	7.2	7.734
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	15	0.079	0.184	0.661	0.009	0.047	0.218	0.021	0.063	0.162	0.661
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	11	6.8	6.964	8.1	6.6	0.191	0.437	6.6	6.6	7.1	7.92
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	11	6.8	6.837	8.1	6.6	0.208	0.456	6.6	6.6	7.1	7.92
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	11	0.158	0.145	0.251	0.008	0.007	0.086	0.019	0.079	0.251	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	11	26.	28.364	53.	13.	147.055	12.127	13.6	16.	38.	50.8
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	11	74.	77.364	204.	43.	1948.055	44.137	44.	52.	79.	179.6
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	11	24.	28.636	84.	13.	381.855	19.541	13.	19.	30.	74.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	11	47.	53.636	170.	14.	1744.055	41.762	14.8	33.	62.	148.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	7.	23.864	160.	2.5	2150.505	46.374	2.5	2.5	20.	135.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	11##	2.5	4.818	22.	0.	35.614	5.968	0.5	2.5	5.	19.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	11##	2.5	20.	138.	2.5	1610.05	40.125	2.5	2.5	15.	116.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	11 ##	0.05	0.127	0.4	0.05	0.015	0.121	0.05	0.05	0.2	0.38
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.01	0.011	0.04	0.005	0.	0.01	0.005	0.005	0.01	0.034
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	04/13/83-10/24/96	11	0.39	0.392	0.59	0.025	0.032	0.18	0.062	0.29	0.59	0.59
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/13/83-10/24/96	11	0.4	0.4	0.9	0.2	0.044	0.21	0.2	0.2	0.5	0.84

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	11	0.1	0.112	0.4	0.03	0.01	0.099	0.034	0.05	0.1	0.34
00671	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	11	0.05	0.074	0.35	0.005	0.009	0.097	0.008	0.02	0.08	0.302
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	5 ##	0.5	0.8	2.	0.5	0.45	0.671	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	5 ##	0.5	0.42	0.5	0.1	0.032	0.179	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	5 ##	5.	9.1	30.	0.5	140.3	11.845	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	5 ##	5.	7.2	11.	5.	9.2	3.033	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	5	500.	6154.	29000.	200. 163	3139580.	12772.611	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	5	2.	3.9	12.	1.	21.05	4.588	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	5	60.	131.16	345.8	40.	16715.728	129.289	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	5 ##	5.	15.6	50.	5.	381.8	19.54	**	**	**	**
01092	ZINC, TOTAL (UĞ/L AS ZN)	04/13/83-10/06/94	5	10.	22.4	72.	10.	768.8	27.727	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	4 ##	1.	1.125	2.	0.5	0.396	0.629	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	5 ##	0.15	0.13	0.15	0.05	0.002	0.045	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BOWA0013

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	13	16.8	17.769	30.4	11.1	35.539	5.961	11.1	13.2	20.25	29.44
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	13	7.4	6.062	10.6	0.2	11.641	3.412	0.2	3.4	8.4	10.16
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	13	6.7	7.018	8.9	6.2	0.732	0.856	6.2	6.39	7.4	8.74
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	13	6.7	6.618	8.9	6.2	0.905	0.951	6.2	6.39	7.4	8.74
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	13	0.2	0.241	0.631	0.001	0.05	0.224	0.002	0.041	0.407	0.631
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	11	7.	7.127	7.9	6.8	0.156	0.395	6.8	6.9	7.1	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	11	7.	7.019	7.9	6.8	0.169	0.411	6.8	6.9	7.1	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	11	0.1	0.096	0.158	0.013	0.002	0.049	0.013	0.079	0.126	0.158
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	11	33.	34.	52.	25.	64.8	8.05	25.2	28.	40.	50.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	11	64.	70.091	116.	46.	363.491	19.065	48.2	59.	82.	110.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	11	21.	22.545	41.	10.	106.673	10.328	10.2	13.	31.	40.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	11	46.	47.545	90.	10.	573.673	23.951	11.2	33.	71.	86.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	6.	12.909	49.	2.	247.241	15.724	2.	2.5	29.	45.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	2.5	3.909	10.	2.	7.841	2.8	2.	2.	6.	9.6
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	3.	9.591	39.	0.5	159.841	12.643	0.5	0.5	21.	35.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.06	0.145	0.82	0.02	0.055	0.234	0.02	0.02	0.18	0.7
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.01	0.01	0.02	0.005	0.	0.007	0.005	0.005	0.02	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.11	0.125	0.41	0.02	0.011	0.107	0.02	0.06	0.14	0.364
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	04/13/83-10/24/96	11	0.4	0.455	1.2	0.3	0.067	0.258	0.3	0.3	0.5	1.06
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	11	0.04	0.061	0.2	0.01	0.003	0.057	0.012	0.02	0.1	0.184
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	11	0.02	0.028	0.11	0.005	0.001	0.031	0.006	0.01	0.03	0.1
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	10 ##		2.05	2.5	0.5	0.692	0.832	0.5	1.625	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	10 ##		1.2	1.5	0.5	0.233	0.483	0.5	0.5	1.5	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	10 ##		19.	25.	5.	93.333	9.661	5.	5.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	10 ##		19.	25.	5.	93.333	9.661	5.	5.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	10	170.	470.	1590.	100.	347444.444	589.444	100.	130.	725.	1586.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	10 ##		3.7	5.	0.5	4.4	2.098	0.5	0.875	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	10 ##		81.5	390.	25.	13266.944	115.182	25.	25.	120.	363.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	10 ##		19.	25.	5.	93.333	9.661	5.	5.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	10 ##		19.	25.	5	93.333	9.661	5	5.	25.	25.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	11 ##		2.136	3.	0.5	0.705	0.839	0.5	2.	2.5	2.9
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	10 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	7	19.3	18.043	26.1	9.8	29.333	5.416	**	**	**	**
00300	OXYGEN, DISSOLVED MĞ/L	04/13/83-04/26/94	7	7.9	6.914	10.	0.5	11.805	3.436	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	7	7.38	7.339	8.6	6.15	0.614	0.784	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	7	7.38	6.82	8.6	6.15	0.928	0.963	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	7	0.042	0.151	0.708	0.003	0.065	0.254	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	7	6.8	7.1	8.2	6.6	0.313	0.56	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	7	6.8	6.903	8.2	6.6	0.358	0.599	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	7	0.158	0.125	0.251	0.006	0.008	0.09	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	7	28.	28.857	32.	26.	6.476	2.545	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	7	69.	69.	103.	48.	334.667	18.294	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	7	23.	23.714	32.	20.	17.571	4.192	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	6	45.	45.	71.	28.	246.8	15.71	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	7	4.	7.571	26.	2.	70.952	8.423	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	7	3.	3.714	9.	2.	6.238	2.498	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	7	1.	4.	17.	0.5	38.25	6.185	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	7	0.05	0.113	0.31	0.02	0.012	0.112	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	7	0.02	0.014	0.02	0.005	0.	0.007	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	7	0.24	0.204	0.34	0.02	0.018	0.135	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	7	0.5	0.629	1.2	0.3	0.099	0.315	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	7	0.05	0.056	0.11	0.04	0.001	0.024	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	5 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	5 ##		25.	25.	25.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	5 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	5	260.	338.	800.	160.	69620.	263.856	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	5 ##	25.	117.	460.	25.	36882.5	192.048	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	4 ##		25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UĞ/L AS ZN)	04/13/83-10/06/94	5 ##		25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	7 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

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Annual Analysis for 1990 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	11	21.	21.073	28.1	11.3	21.724	4.661	12.42	19.4	24.	27.94
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	10	7.45	6.59	11.2	0.	12.705	3.564	0.27	3.525	9.15	11.16
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	11	7.25	7.352	8.67	6.	0.69	0.831	6.04	7.	7.8	8.656
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	11	7.25	6.739	8.67	6.	1.103	1.05	6.04	7.	7.8	8.656
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	11	0.056	0.182	1.	0.002	0.106	0.325	0.002	0.016	0.1	0.926
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	11	6.9	7.136	8.3	6.6	0.353	0.594	6.62	6.7	7.2	8.28
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	11	6.9	6.916	8.3	6.6	0.406	0.637	6.62	6.7	7.2	8.28
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	11	0.126	0.121	0.251	0.005	0.007	0.086	0.005	0.063	0.2	0.241
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	11	29.	26.636	40.	2.	157.255	12.54	2.2	28.	33.	39.6
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	11	66.	78.909	154.	52.	1282.691	35.815	52.4	59.	74.	152.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	11	29.	28.636	57.	15.	154.055	12.412	15.4	18.	35.	53.6
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	11	37.	50.273	124.	24.	937.018	30.611	24.6	31.	57.	117.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	8.	19.227	78.	0.5	813.268	28.518	0.8	2.	18.	77.2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	2.	3.545	14.	0.5	22.623	4.756	0.5	1.	3.	13.6
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	11	6.	16.045	66.	0.5	562.173	23.71	0.5	0.5	16.	64.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.05	0.235	1.13	0.02	0.132	0.363	0.02	0.04	0.24	1.052
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.01	0.01	0.02	0.005	0.	0.006	0.005	0.005	0.01	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	11	0.19	0.213	0.55	0.02	0.037	0.191	0.02	0.04	0.42	0.528
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	04/13/83-10/24/96	11	0.5	0.664	1.7	0.3	0.205	0.452	0.32	0.4	0.6	1.64
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	11	0.05	0.081	0.25	0.02	0.006	0.079	0.02	0.03	0.09	0.244

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	11 ##	5.	4.545	5.	2.5	1.023	1.011	2.5	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	11 ##	5.	4.364	5.	1.5	2.005	1.416	1.5	5.	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	11 ##	5.	4.545	5.	2.5	1.023	1.011	2.5	5.	5.	5.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	11 ##	5.	4.545	5.	2.5	1.023	1.011	2.5	5.	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	11	490.	1030.	5000.	70.	2741560.	1655.766	72.	80.	660.	4712.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	11	60.	275.364	1400.	5.	239652.455	489.543	6.	20.	260.	1338.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	11##	5.	4.545	5.	2.5	1.023	1.011	2.5	5.	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	11 ##	5.	6.773	20.	2.5	24.568	4.957	3.	5.	5.	18.4
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	11 ##	5.	5.	10.	2.5	3.75	1.936	2.5	5.	5.	9.
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	11 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	3	26.6	24.733	29.8	17.8	38.613	6.214	**	**	**	**
00300	OXYGEN, DISSOLVED MĜ/L	04/13/83-04/26/94	3	4.7	5.233	10.5	0.5	25.213	5.021	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	3	6.14	6.887	8.5	6.02	1.956	1.398	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	3	6.14	6.251	8.5	6.02	2.562	1.6	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	3	0.724	0.561	0.955	0.003	0.247	0.497	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	4	6.9	6.975	7.3	6.8	0.056	0.236	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	4	6.889	6.933	7.3	6.8	0.058	0.241	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	4	0.129	0.117	0.158	0.05	0.003	0.052	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	3	21.	22.	24.	21.	3.	1.732	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	3	70.	67.333	71.	61.	30.333	5.508	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	3	28.	27.667	30.	25.	6.333	2.517	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	3	41.	39.667	42.	36.	10.333	3.215	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	3	7.	6.	7.	4.	3.	1.732	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	3	5.	4.	5.	2.	3.	1.732	**	**	**	**
00610p	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.06	0.108	0.47	0.02	0.022	0.147	0.02	0.02	0.135	0.47
00615p	NITRITE NÍTROGEN, TÓTAL (MĜ/L AS N)	04/13/83-10/24/96	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.15	0.151	0.38	0.02	0.02	0.143	0.02	0.02	0.295	0.38
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/13/83-10/24/96	9	0.5	0.6	0.9	0.3	0.038	0.194	0.3	0.5	0.8	0.9
00665p	PHOSPHORÚS, TOTAL (MG/L AŚ P)	04/13/83-10/24/96	9	0.04	0.044	0.1	0.03	0.	0.022	0.03	0.03	0.045	0.1
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	6 ##	£ 5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	6 ##	£ 5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	6 ##	£ 5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	6 ##	£ 7.5	7.5	10.	5.	7.5	2.739	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	6	215.	258.333	510.	110.	24856.667	157.66	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	6 ##	£ 5.	9.167	20.	5.	44.167	6.646	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	6	20.	47.167	190.	10.	4944.167	70.315	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	6 ##	£ 5.	10.833	30.	5.	104.167	10.206	**	**	**	**
01092	ZINC, TOTAL (UĞ/L AS ZN)	04/13/83-10/06/94	6	35.	216.667	760.	5.	102096.667	319.526	**	**	**	**
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	04/13/83-10/06/94	6 ##	£ 5.	5.	5.	5.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	6 ##	0.15	0.175	0.3	0.15	0.004	0.061	**	**	**	**

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Annual Analysis for 1992 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	8	19.65	19.738	26.9	14.7	15.854	3.982	**	**	**	**
00300	OXYGEN, DISSOLVED MĞ/L	04/13/83-04/26/94	5	3.5	4.26	8.5	0.4	15.413	3.926	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	8	7.95	8.05	9.5	6.9	0.745	0.863	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	8	7.882	7.524	9.5	6.9	1.062	1.03	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	8	0.013	0.03	0.126	0.	0.002	0.042	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	9	7.4	7.467	7.9	7.1	0.068	0.26	7.1	7.3	7.7	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	9	7.4	7.404	7.9	7.1	0.072	0.268	7.1	7.3	7.7	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	9	0.04	0.039	0.079	0.013	0.	0.021	0.013	0.02	0.05	0.079
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	9	29.	28.667	39.	23.	24.	4.899	23.	24.	30.5	39.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	9	69.	82.667	151.	61.	854.	29.223	61.	62.5	97.	151.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	9	19.	19.556	32.	14.	29.278	5.411	14.	15.5	21.5	32.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	9	51.	63.111	119.	42.	624.361	24.987	42.	45.5	78.	119.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	12.	17.556	50.	4.	245.778	15.677	4.	6.5	28.	50.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	4.	4.556	8.	2.	5.528	2.351	2.	2.5	7.	8.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	9	8.	13.	42.	2.	185.75	13.629	2.	3.	21.	42.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.04	0.107	0.51	0.02	0.028	0.167	0.02	0.02	0.145	0.51
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.01	0.008	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	9	0.25	0.34	0.83	0.05	0.065	0.254	0.05	0.165	0.55	0.83
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	9	0.7	0.678	1.	0.4	0.047	0.217	0.4	0.45	0.85	1.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	9	0.06	0.09	0.25	0.02	0.005	0.069	0.02	0.05	0.12	0.25
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	9 ##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	9 ##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	9 ##		5.667	11.	5.	4.	2.	5.	5.	5.	11.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	9	360.	732.778	2500.	5.	872856.944	934.268	5.	175.	1380.	2500.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	9 ##		5.	5.	5.	0.	0.	5.	5.	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	9	50.	182.222	1100.	20.	124119.444	352.306	20.	20.	170.	1100.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	9 ##		7.556	19.	5.	27.278	5.223	5.	5.	9.5	19.
01092	ZINC, TOTAL (UĜ/L AS ZN)	04/13/83-10/06/94	9 ##		9.889	24.	5.	47.361	6.882	5.	5.	15.	24.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	6 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	9 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

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Annual Analysis for 1993 - Station BOWA0013

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	7	19.1	21.529	28.9	16.8	21.722	4.661	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	2	6.45	6.45	8.	4.9	4.805	2.192	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	7	7.7	8.057	9.3	7.1	0.676	0.822	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	7	7.7	7.622	9.3	7.1	0.897	0.947	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	7	0.02	0.024	0.079	0.001	0.001	0.028	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	10	7.25	7.3	7.9	6.9	0.102	0.32	6.91	7.	7.525	7.87
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	10	7.247	7.208	7.9	6.9	0.112	0.334	6.91	7.	7.525	7.87
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	10	0.057	0.062	0.126	0.013	0.001	0.038	0.014	0.03	0.1	0.123
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	10	32.	31.6	44.	19.	92.711	9.629	19.1	23.	43.25	44.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	10	67.5	70.3	98.	40.	300.011	17.321	41.4	59.25	84.75	96.9
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	10	23.	20.2	26.	6.	58.844	7.671	6.	17.25	25.25	26.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	10	48.5	50.1	72.	33.	217.433	14.746	33.1	36.25	64.25	71.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	10	9.	10.35	27.	1.5	85.169	9.229	1.5	1.5	16.	26.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	10	2.5	2.85	6.	1.	2.836	1.684	1.05	1.5	4.25	5.9
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	10	6.5	7.95	23.	1.5	57.525	7.585	1.5	1.5	12.25	22.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	10 ##	0.02	0.096	0.45	0.02	0.024	0.153	0.02	0.02	0.108	0.436
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	10	0.01	0.011	0.04	0.005	0.	0.01	0.005	0.005	0.01	0.037
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	10	0.09	0.181	0.49	0.02	0.041	0.203	0.02	0.02	0.45	0.489
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	04/13/83-10/24/96	10	0.5	0.49	0.8	0.2	0.041	0.202	0.2	0.35	0.7	0.79
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	10	0.055	0.067	0.16	0.03	0.001	0.038	0.031	0.04	0.078	0.154

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Annual Analysis for 1993 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	8 ##	5.	5.875	12.	5.	6.125	2.475	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	8	415.	904.	4500.	75.	2195651.429	1481.773	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	8	36.35	77.95	390.	13.5	16213.48	127.332	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	8	13.5	15.125	30.	5.	103.839	10.19	**	**	**	**
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	04/13/83-10/06/94	8 ##	10.	15.875	29.	10.	70.696	8.408	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	8 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

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Annual Analysis for 1994 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	4	20.5	18.825	21.9	12.4	18.889	4.346	**	**	**	**
00300	OXYGEN, DISSÓLVED MĠ/L	04/13/83-04/26/94	2	7.2	7.2	9.5	4.9	10.58	3.253	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	4	7.8	7.705	7.92	7.3	0.076	0.276	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	4	7.8	7.63	7.92	7.3	0.084	0.289	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	4	0.016	0.023	0.05	0.012	0.	0.018	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	4	6.85	6.8	6.9	6.6	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	4	6.847	6.782	6.9	6.6	0.02	0.143	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	4	0.142	0.165	0.251	0.126	0.004	0.059	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	4	28.5	27.75	31.	23.	12.917	3.594	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	4	66.	64.	77.	47.	179.333	13.392	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	4	16.	17.	25.	11.	44.667	6.683	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	4	50.5	47.	60.	27.	199.333	14.119	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	4 ##		7.5	14.	1.5	48.167	6.94	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	4 ##		2.5	4.	1.5	1.5	1.225	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	4 ##	5.25	5.75	11.	1.5	24.75	4.975	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	4 ##		0.028	0.05	0.02	0.	0.015	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	4 ##	0.005	0.006	0.01	0.005	0.	0.003	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	4 ##	0.175	0.273	0.72	0.02	0.11	0.332	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	4	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	4	0.045	0.053	0.09	0.03	0.001	0.026	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	3 ##		5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	3 ##		2.667	5.	1.5	4.083	2.021	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	3 ##		18.333	25.	5.	133.333	11.547	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	3 ##	25.	18.333	25.	5.	133.333	11.547	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	3	485.	965.667	2200.	212.	1161316.333	1077.644	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	3	7.	7.	9.	5.	4.	2.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	3 ##		113.333	290.	25.	23408.333	152.998	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	3 ##		18.333	25.	5.	133.333	11.547	**	**	**	**
01092	ZINC, TÓTAL (UĜ/L AS ZN)	04/13/83-10/06/94	3 ##	25.	20.333	25.	11.	65.333	8.083	**	**	**	**
01147	SELENIUM, TOTAL (UG/L ÁS SE)	04/13/83-10/06/94	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	3 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	3	18.1	18.567	25.5	12.1	45.053	6.712	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	3	8.05	8.257	8.85	7.87	0.272	0.522	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	3	8.05	8.1	8.85	7.87	0.309	0.556	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	3	0.009	0.008	0.013	0.001	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	3	7.	7.	7.3	6.7	0.09	0.3	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	3	7.	6.933	7.3	6.7	0.097	0.311	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	3	0.1	0.117	0.2	0.05	0.006	0.076	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	3	25.	25.333	26.	25.	0.333	0.577	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	3	58.	58.667	73.	45.	196.333	14.012	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	3	18.	21.333	28.	18.	33.333	5.774	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	3	30.	37.333	55.	27.	236.333	15.373	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	3	9.	13.	25.	5.	112.	10.583	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	3 ##	1.5	4.	9.	1.5	18.75	4.33	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	3	7.	8.667	16.	3.	44.333	6.658	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	3	0.05	0.043	0.06	0.02	0.	0.021	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	04/13/83-10/24/96	3	0.28	0.247	0.33	0.13	0.011	0.104	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	3	0.3	0.5	0.9	0.3	0.12	0.346	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	3	0.03	0.063	0.13	0.03	0.003	0.058	**	**	**	**

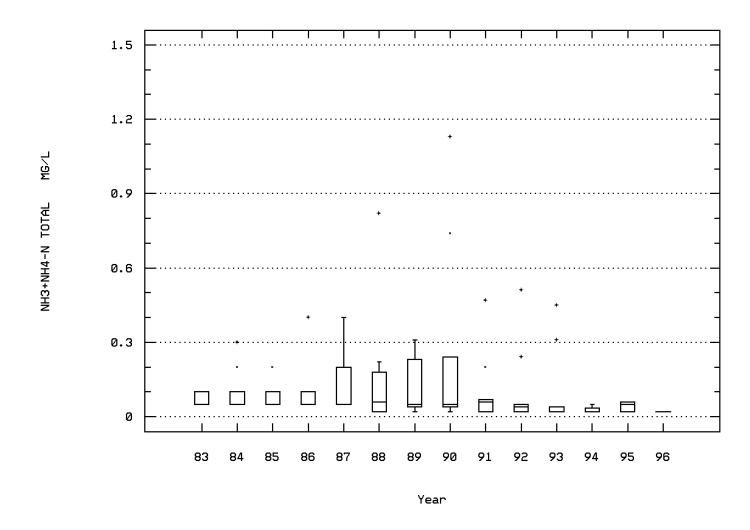
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0013

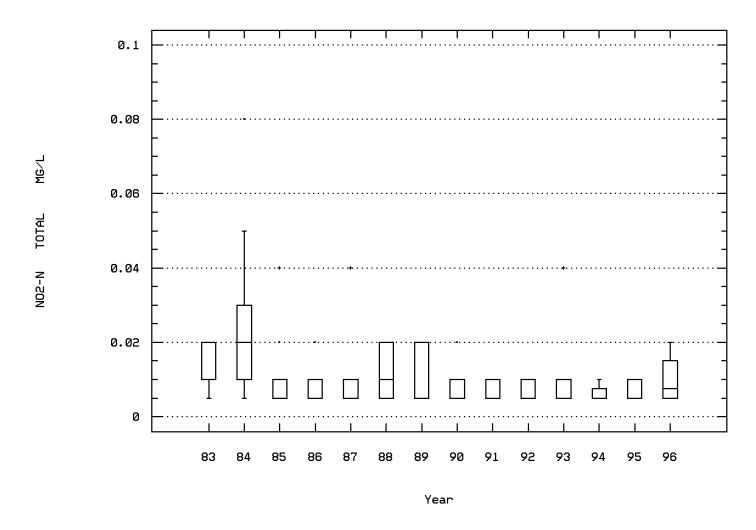
Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	4	23.4	23.4	29.5	17.3	44.247	6.652	**	**	**	**
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	4	8.375	8.403	9.1	7.76	0.521	0.722	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	4	8.071	8.056	9.1	7.76	0.681	0.825	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	4	0.008	0.009	0.017	0.001	0.	0.009	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	4	7.45	7.475	7.8	7.2	0.102	0.32	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	4	7.382	7.393	7.8	7.2	0.112	0.334	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	4	0.042	0.04	0.063	0.016	0.001	0.026	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	4	27.	26.75	29.	24.	4.917	2.217	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	4	62.	60.25	68.	49.	64.917	8.057	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	4	18.	16.5	25.	5.	72.333	8.505	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	4	44.5	43.75	48.	38.	17.583	4.193	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	4	5.	6.5	12.	4.	13.667	3.697	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	4 ##	1.5	1.875	3.	1.5	0.563	0.75	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	4	3.	4.125	9.	1.5	11.063	3.326	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	4 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00615p	NITRITE NÍTROGEN, TÓTAL (MĠ/L AS N)	04/13/83-10/24/96	4 ##	0.008	0.01	0.02	0.005	0.	0.007	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	4	0.2	0.188	0.31	0.04	0.012	0.111	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	04/13/83-10/24/96	4	0.4	0.4	0.5	0.3	0.007	0.082	**	**	**	**
00665p	PHOSPHORÚS, TOTAL (MG/L AŚ P)	04/13/83-10/24/96	4	0.035	0.038	0.05	0.03	0.	0.01	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

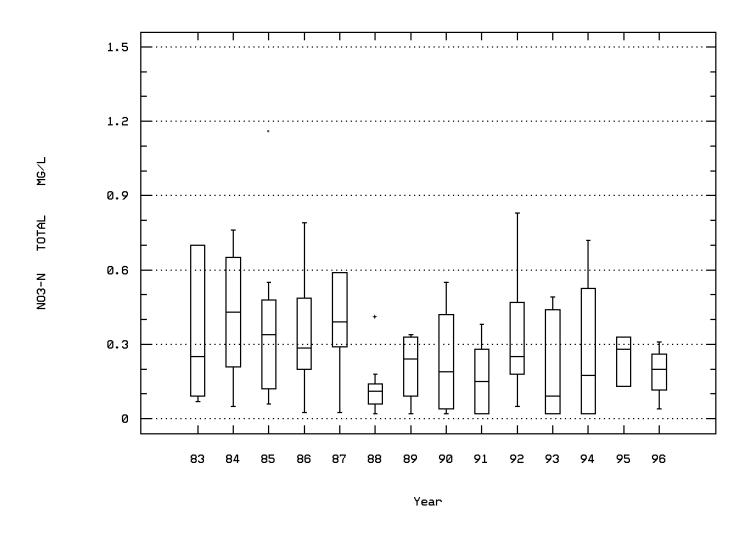
Station: BOWA0013 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



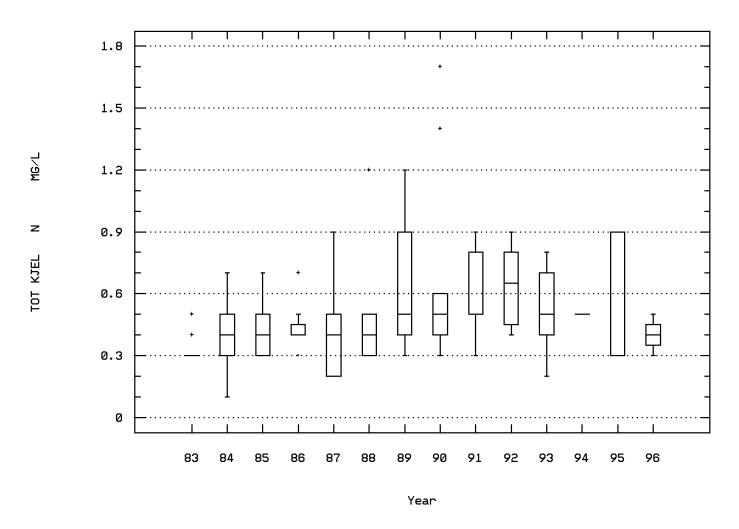
Station: BOWA0013 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



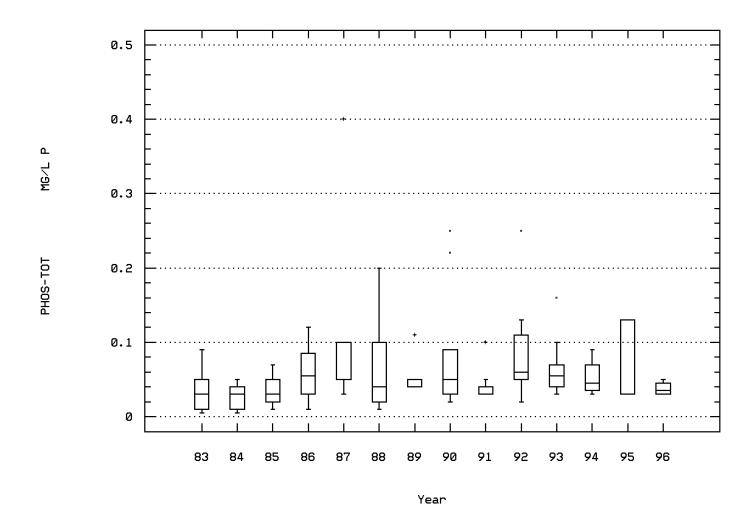
Station: BOWA0013 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)



Station: BOWA0013 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



Station: BOWA0013 Parameter Code: 00665 PHOSPHORUS, TOTAL (MG/L AS P)



Seasonal Analysis for Season #1: 8/01 to 10/14 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	40	19.9	21.548	30.4	16.2	16.203	4.025	17.32	18.175	25.575	27.99
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	23	80.	83.913	127.	65.	235.901	15.359	70.	71.	90.	107.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	15	82.	86.067	99.	73.	78.352	8.852	73.6	80.	95.	98.4
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	31	6.6	6.019	11.2	0.2	11.205	3.347	0.34	3.5	8.4	10.
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	40	7.65	7.639	9.5	6.	0.813	0.902	6.182	7.04	8.425	8.9
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	40	7.647	6.883	9.5	6.	1.4	1.183	6.182	7.04	8.425	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	40	0.023	0.131	1.	0.	0.061	0.248	0.001	0.004	0.092	0.658
00403	PH, LAB, ŜTANDARD UNITS SU	04/13/83-10/24/96	35	7.2	7.251	8.4	6.4	0.294	0.542	6.52	6.8	7.6	8.14
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	35	7.2	6.98	8.4	6.4	0.37	0.608	6.52	6.8	7.6	8.14
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	35	0.063	0.105	0.398	0.004	0.013	0.113	0.007	0.025	0.158	0.31
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	35	32.	33.771	53.	26.	49.534	7.038	28.2	29.	37.	47.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	35	69.	1170.657	13560.	43. 1.	3249137.703	3639.936	57.6	61.	94.	4852.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	35	22.	299.029	4026.	11.	878573.676	937.323	14.6	19.	29.	959.2
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	34	49.	897.471	9736.	14.	7609624.62	2758.555	31.5	40.5	72.5	4829.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	35	5.	13.314	78.	0.5	299.457	17.305	1.8	2.5	15.	41.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	35	3.	4.029	12.	0.	9.808	3.132	0.8	2.	6.	9.4
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	35	2.5	9.829	66.	0.	203.97	14.282	0.5	1.5	12.	32.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	38	0.05	0.128	0.82	0.02	0.039	0.198	0.02	0.04	0.1	0.474
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	38	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	04/13/83-10/24/96	38	0.075	0.141	0.79	0.02	0.025	0.158	0.02	0.024	0.21	0.321
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	38	0.5	0.566	1.4	0.2	0.072	0.267	0.3	0.4	0.625	0.93
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	38	0.05	0.064	0.25	0.01	0.002	0.049	0.02	0.038	0.085	0.112
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	15	0.01	0.029	0.11	0.005	0.001	0.034	0.005	0.005	0.04	0.104
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-04/26/94	21	31.	37.286	71.	28.	151.914	12.325	28.2	30.	41.5	62.4
00940	CHLORIDE, TOTAL IN WATER MG/L	04/27/89-10/24/96	10	3.5	3.45	4.	2.5	0.358	0.599	2.55	3.	4.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	10	4.	3.95	5.	2.5	0.581	0.762	2.55	3.75	4.25	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	28#		3.393	5.	0.5	3.877	1.969	0.5	1.25	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	28 #		2.879	5.	0.1	4.787	2.188	0.5	0.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	28 #		7.768	30.	0.5	81.805	9.045	0.5	1.	5.	25.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	28 #		8.464	25.	5.	50.406	7.1	5.	5.	8.75	25.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	28	380.	1652.643	29000.	70. 29	9427950.312	5424.753	80.	162.5	770.	2606.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	28 #		5.	15.	1.	9.111	3.018	1.	3.25	5.	9.3
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	28	27.5	129.6	1100.	5.	78913.164	280.915	20.	20.3	87.5	420.22
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	28#		16.679	50.	5.	302.448	17.391	5.	5.	25.	50.
01092	ZINC, TÓTAL (UĞ/L AS ZN)	04/13/83-10/06/94	28#		15.464	72.	5.	233.221	15.272	5.	5.	23.75	28.4
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	24#		4.792	10.	0.5	16.933	4.115	0.5	0.5	10.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	30 #	# 0.15	0.147	0.15	0.05	0.	0.018	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0013

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Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	40	15.15	14.708	21.9	5.8	17.349	4.165	9.26	11.5	17.975	20.18
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	19	71.	71.947	114.	20.	844.608	29.062	20.	60.	100.	110.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	11	75.	73.273	84.	61.	53.418	7.309	61.2	68.	77.	83.6
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	33	8.4	7.894	12.2	2.4	3.89	1.972	4.42	7.2	8.9	9.72
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	42	7.1	7.118	9.9	6.15	0.506	0.711	6.236	6.565	7.55	7.849
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	42	7.1	6.757	9.9	6.15	0.64	0.8	6.236	6.565	7.55	7.849
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	42	0.079	0.175	0.708	0.	0.04	0.2	0.014	0.029	0.272	0.581
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	40	7.05	6.992	7.9	6.4	0.113	0.335	6.6	6.7	7.2	7.48
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	40	7.047	6.877	7.9	6.4	0.126	0.355	6.6	6.7	7.2	7.48
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	40	0.09	0.133	0.398	0.013	0.01	0.098	0.033	0.063	0.2	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	40	28.	27.7	44.	2.	105.395	10.266	15.	23.25	34.	42.
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	40	68.	73.9	204.	45.	726.4	26.952	49.1	58.	83.5	101.6
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	40	22.5	22.75	53.	5.	68.603	8.283	13.	18.25	26.	34.
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	40	47.	51.15	170.	10.	661.567	25.721	27.1	37.	62.75	77.6

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	40	9.	16.638	160.	1.5	714.167	26.724	2.	2.5	19.5	39.5
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	40	2.75	4.025	22.	1.	14.935	3.865	1.5	2.	4.75	8.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	40	6.	13.038	138.	0.5	527.761	22.973	1.	2.5	15.25	31.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	40 ##		0.078	0.4	0.02	0.008	0.087	0.02	0.02	0.09	0.227
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	40	0.01	0.011	0.04	0.005	0.	0.008	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	40	0.32	0.329	0.72	0.02	0.046	0.214	0.042	0.098	0.488	0.689
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	40	0.4	0.383	0.9	0.2	0.018	0.134	0.3	0.3	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	40	0.05	0.062	0.4	0.005	0.004	0.065	0.01	0.03	0.085	0.118
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	23	0.03	0.095	0.9	0.005	0.036	0.19	0.007	0.01	0.1	0.258
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-04/26/94	17	28.	29.765	42.	22.	41.066	6.408	22.	25.	32.5	42.
00940	CHLORIDE,TOTAL IN WATER MG/L	04/27/89-10/24/96	10	3.	3.6	5.	2.5	1.1	1.049	2.5	2.875	5.	5.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	10	4.	4.3	7.	2.5	2.622	1.619	2.5	2.875	6.	6.9
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	26 ##		2.654	5.	0.5	2.775	1.666	0.5	0.875	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	26 ##		2.173	5.	0.5	3.239	1.8	0.5	0.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	26 ##	5.	11.635	25.	0.5	118.231	10.873	0.5	2.375	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	26 ##		12.962	25.	2.	97.938	9.896	2.5	5.	25.	25.
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	26	503.5	1033.654	4500.		1644606.235	1282.422	97.9	140.	1560.	3650.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	26 ##	5.	3.904	5.	0.5	3.46	1.86	0.5	1.75	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	26	50.	96.523	460.	13.5	14002.015	118.33	22.36	25.	105.	320.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	25 ##		20.4	50.	2.5	243.062	15.59	4.	5.	25.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	26 ##		17.327	30.	2.5	79.859	8.936	5.	10.	25.	26.5
01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/83-10/06/94	27 ##		5.722	29.	0.5	62.083	7.879	0.5	1.	10.	22.2
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	28 ##	0.15	0.15	0.15	0.15	0.	0.	0.15	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/83-10/24/96	47	16.9	18.557	29.8	8.	40.62	6.373	10.9	13.2	25.5	28.
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/18/88-10/24/96	16	70.	73.375	124.	55.	308.117	17.553	55.	60.	80.	100.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-10/24/96	8	74.5	75.875	101.	64.	126.982	11.269	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/13/83-04/26/94	45	5.4	5.162	11.8	0.	15.022	3.876	0.12	0.85	8.6	10.54
00400	PH (STANDARD UNITS)	04/13/83-10/24/96	45	6.9	7.236	9.3	6.02	0.895	0.946	6.176	6.55	8.	8.76
00400	CONVERTED PH (STANDARD UNITS)	04/13/83-10/24/96	45	6.9	6.692	9.3	6.02	1.197	1.094	6.176	6.55	8.	8.76
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	45	0.126	0.203	0.955	0.001	0.061	0.248	0.002	0.012	0.284	0.668
00403	PH, LAB, STANDARD UNITS SU	04/13/83-10/24/96	38	6.9	7.124	8.4	6.3	0.318	0.564	6.59	6.775	7.35	8.12
00403	CONVERTED PH, LAB, STANDARD UNITS	04/13/83-10/24/96	38	6.9	6.883	8.4	6.3	0.378	0.615	6.59	6.775	7.35	8.12
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/13/83-10/24/96	38	0.126	0.131	0.501	0.004	0.014	0.117	0.008	0.045	0.169	0.258
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/13/83-10/24/96	37	25.	25.811	40.	16.	30.713	5.542	20.	22.	29.	35.2
00500	RESIDUE, TOTAL (MG/L)	04/13/83-10/24/96	37	64.	72.757	154.	40.	681.078	26.097	55.2	59.	75.5	110.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	04/13/83-10/24/96	37	22.	24.081	59.	6.	149.354	12.221	10.	15.5	30.5	40.2
00510	RESIDUE, TOTAL FIXED (MG/L)	04/13/83-10/24/96	37	43.	48.676	122.	10.	518.67	22.774	26.4	36.5	55.5	74.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/13/83-10/24/96	37	8.	15.959	88.	2.	354.7	18.833	2.5	5.	19.5	34.8
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/13/83-10/24/96	37	3.	4.446	14.	1.5	10.566	3.251	2.	2.	5.5	9.6
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	04/13/83-10/24/96	37	5.	11.797	76.	0.5	258.145	16.067	2.4	2.75	15.	26.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/83-10/24/96	40	0.1	0.142	1.13	0.02	0.037	0.191	0.02	0.05	0.195	0.3
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	40	0.01	0.014	0.08	0.005	0.	0.015	0.005	0.005	0.02	0.029
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/83-10/24/96	40	0.305	0.349	1.16	0.02	0.061	0.247	0.11	0.15	0.478	0.668
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/83-10/24/96	40	0.5	0.533	1.7	0.1	0.074	0.272	0.3	0.4	0.675	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/13/83-10/24/96	40	0.04	0.057	0.25	0.005	0.003	0.05	0.02	0.03	0.068	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/13/83-07/01/93	26	0.02	0.028	0.07	0.005	0.	0.02	0.009	0.01	0.043	0.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/87-04/26/94	15	26.	25.667	33.	20.	13.095	3.619	21.2	22.	29.	31.2
00940	CHLORIDE, TOTAL IN WATER MG/L	04/27/89-10/24/96	2 ##		2.75	3.	2.5	0.125	0.354	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/27/89-10/24/96	2 ##		3.25	4.	2.5	1.125	1.061	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/83-10/06/94	28 #		3.911	21.	0.5	26.668	5.164	0.5	0.5	5.	6.5
01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/83-10/06/94	28 ##	4 0.5	2.4	5.	0.1	5.268	2.295	0.46	0.5	5.	5.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0013

Paramete	r	Period of Record	Obs M	Iedian	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/83-10/06/94	28 ##	5.	6.089	41.	0.5	92.853	9.636	0.5	1.25	5.	8.3
01042	COPPER, TOTAL (UG/L AS CU)	04/13/83-10/06/94	28 ##	5.	7.286	27.	5.	27.841	5.276	5.	5.	8.75	11.2
01045	IRON, TOTAL (UG/L AS FE)	04/13/83-10/06/94	27 4	400.	2656.111	50000.	5. 9	1108612.179	9545.083	108.	200.	1000.	4840.
01051	LEAD, TOTAL (UG/L AS PB)	04/13/83-10/06/94	28 ##	5.	6.161	32.	0.5	63.112	7.944	0.95	1.625	5.	20.8
01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/83-10/06/94	27	30.	161.407	1400.	5.	83914.635	289.68	10.	20.	190.	452.
01067	NICKEL, TOTAL (UG/L AS NI)	04/13/83-10/06/94	28 ##	5.	10.893	50.	5.	100.692	10.035	5.	5.	13.	22.8
01092	ZINC, TOTAL (UG/L AS ZN)	04/13/83-10/06/94	28 ##	7.5	70.821	760.	5.	28055.115	167.497	5.	5.	23.	271.
01147	SELENIUM, TÒTAL (UG/L ÁS SE)	04/13/83-10/06/94	26 ##	2.	3.269	10.	0.5	10.325	3.213	0.5	0.5	5.	10.
71900	MERCURY, TOTAL (UG/L AS HG)	04/13/83-10/06/94	28 ##	0.15	0.148	0.3	0.045	0.002	0.04	0.14	0.15	0.15	0.15

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BOWA0014

NPS Station ID: BOWA0014 LAT/LON: 37.056115/ -79.759448 Location: SMITH MTN.LAKE,BROOKS MILL BR.RT.834 FRANKLN CO

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RF3 Index: 03010101002203.42

RMI-Hides: HUC: 03010101 Major Basin: 03-SOUTHEAST Minor Basin: 4-ROANOKE-YADKIN RF1 Index: 03010101 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 3.42

Description: VIRGINIA STATE WATER CONTROL BOARD

RIVER: BLACKWATER RIVER

SECTION: 06A

Depth of Water: 0

INTENSIVE SURVEY NO. 925102 BASIN: 4A ROANOKE DN: 06A TOPO MAP #: 0036 TOPO MAP NAME: REDWOOD, VA

Agency: 21VASWCB FIPS State/County: 51067 VIRGINIA/FRANKLIN STORET Station ID(s): 4ABWR019.75 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 0.60
Distance from RF3: 0.02

REGION: 2 WEST CENTRAL

On/Off RF1: On/Off RF3:

Date Created: 10/10/87

Parameter Inventory for Station: BOWA0014

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	438	18.3	16.579	30.6	0.	55.196	7.429	5.	10.5	23.	25.21
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/92-08/27/96	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00070	TURBÍDITY, (JACKSON CANDLE UNITS)	04/05/71-06/25/92	40	11.55	29.823	160.	1.	1802.477	42.456	2.95	6.6	27.5	93.9
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/06/94-02/18/97	62	15.95	37.706	670.	2.4	7786.453	88.241	6.03	7.95	31.25	97.
08000	COLOR (PLATINUM-COBALT UNITS)	03/21/91-02/24/93	22	38.	61.682	333.	17.	6201.37	78.749	23.3	27.5	49.25	206.1
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	318	60.	64.031	500.	8.	1192.51	34.533	40.	50.	74.25	82.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	128	77.	80.406	427.	49.	1249.66	35.351	66.	70.	83.	87.1
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	170	8.2	8.788	14.3	5.9	3.439	1.855	6.8	7.6	9.7	11.9
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	270	8.85	9.188	14.8	1.2	4.049	2.012	6.9	7.675	10.65	12.
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	196	1.	1.726	13.	0.5	1.684	1.298	1.	1.	2.	3.
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	190	7.	9.637	166.	0.5	185.293	13.612	2.	5.	10.	16.9
00400p	PH (ŚTANDARD UNITS)	03/17/70-03/18/97	437	7.32	7.45	9.3	5.9	0.406	0.637	6.7	7.	7.8	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	437	7.32	7.092	9.3	5.9	0.535	0.731	6.7	7.	7.8	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	437	0.048	0.081	1.259	0.001	0.014	0.117	0.004	0.016	0.1	0.2
00403p	PH, LAB, ŜTANDARD UNITS SU	03/17/70-02/18/97	109	6.9	6.966	8.3	6.2	0.111	0.333	6.6	6.8	7.2	7.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	109	6.9	6.852	8.3	6.2	0.124	0.352	6.6	6.8	7.2	7.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	109	0.126	0.141	0.631	0.005	0.011	0.107	0.04	0.063	0.158	0.251
00410p	ALKALINÎTY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	107	24.	25.813	178.	13.	258.965	16.092	17.	20.	28.	31.
00500p	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	228	71.	90.886	976.	28.	7783.441	88.224	53.	61.	86.	129.1
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	212	20.	24.196	300.	0.5	627.652	25.053	8.	14.	27.	39.7
00510p	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	213	53.	68.002	828.	0.	5950.982	77.143	37.4	43.	66.5	99.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	327	13.	31.853	882.	1.	7433.261	86.216	2.5	7.	24.	50.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	311	3.	5.566	124.	0.	107.117	10.35	1.5	2.	5.	9.8
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	312	10.	23.997	759.	0.5	4367.129	66.084	2.5	5.	19.	42.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	405 ##	0.05	0.069	1.1	0.005	0.01	0.102	0.02	0.02	0.06	0.12
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	409 ##	0.005	0.014	0.24	0.005	0.	0.021	0.005	0.005	0.01	0.03
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	383	0.52	0.525	1.8	0.01	0.07	0.265	0.18	0.36	0.68	0.862
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	405	0.3	0.398	3.2	0.05	0.085	0.292	0.2	0.2	0.5	0.64
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/19/76-06/26/79	26	0.49	0.48	1.1	0.025	0.066	0.256	0.119	0.308	0.625	0.83
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	317	0.1	0.123	1.7	0.03	0.02	0.143	0.05	0.05	0.1	0.2
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	140	0.04	0.058	0.27	0.005	0.002	0.049	0.02	0.03	0.07	0.129
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	181	3.	4.382	71.	0.5	43.553	6.6	1.22	2.	5.	7.96
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	114	26.5	28.658	203.	16.	299.944	17.319	21.	23.75	30.	36.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	90	3.	3.572	30.	2.	9.284	3.047	2.5	3.	3.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	88	4.	4.097	36.	2.	12.913	3.593	2.5	3.	4.	5.
00951	FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	45 ##	0.05	0.089	0.28	0.015	0.005	0.069	0.05	0.05	0.12	0.25
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/02/89-01/28/93	39	13.9	13.859	18.1	8.3	4.011	2.003	11.3	12.7	15.5	16.9
01002	ARSENIC, TOTAL (UG/L AS AS) ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	04/05/71-07/28/92	30 ## 7	1.75 4.	3.067 6.864	25.	0.5	21.34 35.884	4.62 5.99	0.5 **	0.5 **	5. **	5.9 **
01003 01012	BERYLLIUM. TOTAL (UG/L AS BE)	06/21/76-07/29/96 05/21/84-07/28/92	2 ##	4. 2.75	2.75	17.1 5.	1. 0.5	35.884 10.125	3.182	**	**	**	**
01012	CADMIUM, TOTAL (UG/L AS CD)	11/02/70-07/28/92	36 ##	5.	3.514	5.	0.5	3.936	1.984	0.5	0.75	5.	5.
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/21/76-07/29/96	6 ##	0.148	0.583	2.5	0.1	0.906	0.952	**	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/21/76-07/29/96	7	30.6	33.184	55.	11.9	207.198	14.394	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/17/70-07/28/92	46 ##	5.	6.	30.	0.5	32.278	5.681	0.5	5.	5.	10.
01042	COPPER, TOTAL (UG/L AS CU)	03/17/70-07/28/92	46 ## 7	5.	6.359	20.	2.5	8.807	2.968	5. **	5. **	6.25	10.
01043 01045	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT) IRON, TOTAL (UG/L AS FE)	06/21/76-07/29/96 11/02/70-07/28/92	11	17. 610.	12.88 1054.364	21.3 2700.	2.69 400.	81.901 752193.255	9.05 867.291	424.	540.	1599.	2695.8
01043	LEAD, TOTAL (UG/L AS PB)	11/02/70-07/28/92	44 ##	5.	8.153	70.	0.25	133.146	11.539	1.5	5.	8.	15.5
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/21/76-07/29/96	7	14.	15.057	25.7	5.1	62.596	7.912	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/17/70-07/28/92	12	50.	67.425	170.	20.	2213.113	47.044	20.	28.75	83.075	161.
01059	THALLIUM, TOTAL (UG/L AS TL)	05/21/84-07/28/92	2 ##	5.25	5.25	10.	0.5	45.125	6.718	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/04/73-06/26/79	15 ##	50.	44.333	50.	5.	224.524	14.984	8.	50.	50.	50.
01067 01068	NICKEL, TOTAL (UG/L AS NI) NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	04/08/81-07/28/92 06/21/76-07/29/96	15 ## 6	5. 14.2	7.5 12.761	40. 26.	2.5 1.665	83.036 82.374	9.112 9.076	4. **	5. **	5. **	22.
01008	ZINC, TOTAL (UG/L AS ZN)	03/17/70-07/28/92	45	10.	17.2	70.	5.	276.891	16.64	5.	5	30.	40.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/21/76-07/29/96	7	80.	72.929	123.	18.3	2198.949	46.893	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/21/84-07/28/92	5 ##	5.	6.1	10.	0.5	16.05	4.006	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/25/92-07/29/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31505	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506)	04/20/70-11/02/70	7 1		8647.143	11000.		268890.476	4155.585	**	**	**	**
31505	LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 3150	04/20/70-11/02/70	7	4.041	3.834	4.041	2.968	0.166	0.407	**	**	**	**
31505 31616p	GM COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN 11/30/70-03/18/97	N = 413	300.	6823.845 1780.993	80000.	50. 24	303041.973	4929.812	50.	100.	1600.	6000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	413	2.477	2.627	4.903	1.699	0.536	0.732	1.699	2.	3.204	3.778
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN		2 , ,	423.233	, 05	1.0//	0.230	0.752	1.077		3.20 .	3.770
32240	TANNIN AND LIGNIN (MG/L)	09/29/92-02/24/93	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34351	ENDOSULFAN SULFATE TOTWUG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34356 34361	ENDOSULFAN, BETA TOTWUG/L ENDOSULFAN, ALPHA TOTWUG/L	10/03/84-07/08/85 10/03/84-07/08/85	2 ## 2 ##	0.05 0.05	0.05 0.05	0.05 0.05	0.05 0.05	0. 0.	0. 0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	Ö.	0.	**	**	**	**
38442	DICAMBA (BANVEL) WATER, DISSUG/L	10/03/84-07/08/85	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
38451	DICHLORPROP WATER,SUSPUG/L	10/03/84-07/08/85	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
38745	2,4-DB WATER, TOTUG/L	10/03/84-07/08/85	2 ## 4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39032 39061	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	11/27/79-07/08/85 09/12/84-07/29/96	4 ## 1 ##	0.025 0.005	0.025 0.005	0.05 0.005	0. 0.005	0.001	0.029 0.	**	**	**	**
39062	CHLORDANE-CIS ISOMER, WHOLE WATER SAMPL (UG/L)	11/27/79-07/25/80	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39065	CHLORDANE-TRNS ISOMER, WHOLE WATER SAMPL (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39068	CHLORDANE-NONACHLOR,CIS ISO,WHOLE WTR (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39071	CHLORDANE-NONACHLOR, TPANS ISO, WHOLE WTR (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	4 ##	0.025	0.025	0.05	0.	0.001	0.029	**	**	**	**
39305 39310	O,P' DDT IN WHOLE WATER SAMPLE (UG/L) P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80 11/27/79-07/08/85	2 4 ##	0. 0.025	0. 0.025	0. 0.05	0.	0. 0.001	0. 0.029	**	**	**	**
39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/83	2	0.023	0.023	0.03	0.	0.001	0.029	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	4 ##	0.025	0.025	0.05	0.	0.001	0.029	**	**	**	**
39327	ORTHO PARA DDE IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	5	0.05	0.04	0.1	0.	0.002	0.042	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/04/81-07/29/96	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39337 39338	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/03/84-07/08/85	2 ## 2 ##	0.05 0.05	0.05 0.05	0.05 0.05	0.05 0.05	0.	0.	**	**	**	**
39338 39340	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP GAMMA-BHC(LINDANE), WHOLE WATER, UG/L	10/03/84-07/08/85 10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0. 0.	0. 0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER, UG/L	11/27/79-07/25/80	2 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS), SEDIMENTS, DRY WGT, UG/KG	09/12/84-07/29/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	ጥጥ	77	ጥ ጥ	ተ ተ

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BOWA0014

Paramete	r	Period of Record	Obs N	Лedian	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/10/71-07/08/85	5	0.05	0.042	0.11	0.	0.002	0.045	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRÁM DRY SOL.)	09/12/84-07/29/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/08/85	4 ##	0.025	0.025	0.05	0.	0.001	0.029	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/12/84-07/29/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/12/84-07/29/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRÝ SOLIDS)	09/12/84-07/29/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/03/84-07/08/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMÉR ANALYSES) UG/KG	09/12/84-07/29/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	09/26/83-09/26/83	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	05/04/81-04/21/82	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	11/27/79-07/25/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/03/84-07/08/85	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	07/28/92-07/28/92	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	89 ##	0.05	0.075	0.6	0.025	0.007	0.082	0.05	0.05	0.05	0.1
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	266	0.04	0.051	0.65	0.005	0.004	0.059	0.01	0.02	0.05	0.08
71900	MERCURY, TOTAL (UG/L AS HG)	09/14/70-06/25/92	42 ##	0.25	0.239	1.	0.15	0.021	0.144	0.15	0.15	0.25	0.25
71921	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/21/76-07/29/96	6 ##	0.075	0.098	0.25	0.045	0.006	0.079	**	**	**	**
77825	ALACHLOR WHOLE WATER,UG/L	10/03/84-07/08/85	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	07/28/92-07/28/92	1 6	5550.	6550.	6550.	6550.	0.	0.	**	**	**	**
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/01/92-06/23/94	87	11.	21.163	380.	0.8	2362.292	48.603	2.68	6.2	19.	25.4

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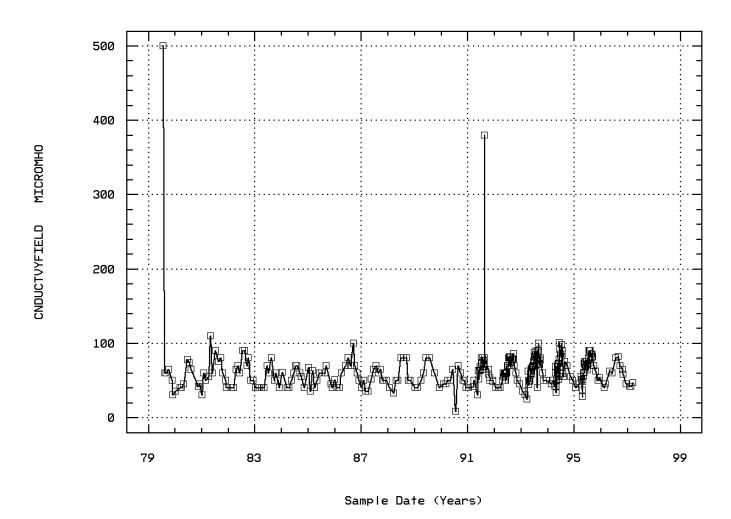
				Total	Exceed	Prop.	8/01-10/14			10/15-4/30			5/01-7/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	40	7	0.18	8	2	0.25	21	2	0.10	11	3	0.27			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	62	7	0.11	14	0	0.00	21	0	0.00	27	7	0.26			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	170	0	0.00	36	0	0.00	47	0	0.00	87	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	270	1	0.00	66	0	0.00	122	1	0.01	82	0	0.00			
00400	PH	Other-Hi Lim.	9.	437	7	0.02	101	2	0.02	167	2	0.01	169	3	0.02			
		Other-Lo Lim.	6.5	437	20	0.05	101	2	0.02	167	16	0.10	169	2	0.01			
00403	PH, LAB	Other-Hi Lim.	9.	109	0	0.00	22	0	0.00	61	0	0.00	26	0	0.00			
		Other-Lo Lim.	6.5	109	10	0.09	22	2	0.09	61	7	0.11	26	1	0.04			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	409	0	0.00	93	0	0.00	153	0	0.00	163	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	383	0	0.00	88	0	0.00	139	0	0.00	156	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	26	0	0.00	5	0	0.00	14	0	0.00	7	0	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	90	0	0.00	17	0	0.00	52	0	0.00	21	0	0.00			
		Drinking Water	250.	90	0	0.00	17	0	0.00	52	0	0.00	21	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	88	0	0.00	16	0	0.00	51	0	0.00	21	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	45	0	0.00	9	0	0.00	26	0	0.00	10	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	30	0	0.00	9	0	0.00	10	0	0.00	11	0	0.00			
		Drinking Water	50.	30	0	0.00	9	0	0.00	10	0	0.00	11	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00							2	0	0.00			
		Drinking Water	4.	1 &	. 0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	14 &		0.00	8	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	5.	14 &	. 0	0.00	8	0	0.00	4	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	46	0	0.00	14	0	0.00	19	0	0.00	13	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.	8/01-10/14				10/15-4/30		5/01-7/31				n/a	
Paramete	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01042	COPPER, TOTAL	Fresh Acute	18.	46	1	0.02	14	0	0.00	19	1	0.05	13	0	0.00			
	,	Drinking Water	1300.	46	0	0.00	14	0	0.00	19	0	0.00	13	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	44	0	0.00	14	0	0.00	17	0	0.00	13	0	0.00			
	,	Drinking Water	15.	44	4	0.09	14	Ö	0.00	17	2	0.12	13	2	0.15			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00							2	0	0.00			
	,	Drinking Water	2.	1 &	Õ	0.00							1	Ŏ	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	15	ŏ	0.00	2	0	0.00	8	0	0.00	5	ŏ	0.00			
	,,,	Drinking Water	100.	15	Õ	0.00	2	Õ	0.00	8	Õ	0.00	5	Õ	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	15	ŏ	0.00	6	ŏ	0.00	5	ŏ	0.00	4	ŏ	0.00			
01007	money, rome	Drinking Water	100.	15	ŏ	0.00	6	ŏ	0.00	5	ŏ	0.00	4	ŏ	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	45	ŏ	0.00	14	ŏ	0.00	18	ŏ	0.00	13	ŏ	0.00			
01072	zirte, fornz	Drinking Water	5000.	45	ő	0.00	14	ŏ	0.00	18	ŏ	0.00	13	ŏ	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	5	Ŏ	0.00	2	ő	0.00	10	Ü	0.00	3	ő	0.00			
01117	SEEEL TOTAL	Drinking Water	50.	5	ő	0.00	2	ŏ	0.00				3	ŏ	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	6	0.86	2	2	1.00	2	2	1.00	3	2	0.67			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	413	281	0.68	96	67	0.70	159	93	0.58	158	121	0.77			
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	2	201	0.00	1	0	0.00	13)	73	0.50	1 1 1	0	0.00			
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	2	0	0.00	1	0	0.00				1	0	0.00			
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
39032	TCI (TENTACILEOROTHENOL) WHOLE WATER SAIMI	Drinking Water	20.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
39300	P.P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute		4	0		1	0		1	0	0.00	2	0				
39330 39340		Fresh Acute	3.	2	0	0.00 0.00	2	0	$0.00 \\ 0.00$	1	U	0.00	1	0	$0.00 \\ 0.00$			
39340	GAMMA-BHC(LINDANE), WHOLE WATER		2.	2	0	0.00	1	0					1	0	0.00			
20250	CHI ODDANE/TECH MIV & METADO WHOLE WATE	Drinking Water	0.2 2.4	2	0		1	U	0.00	1	0	0.00	1	0				
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	2	0	0.00 0.00				1	0	$0.00 \\ 0.00$	1	0	$0.00 \\ 0.00$			
20200	DIEL DDD DI WILOLE WATER CAMPLE	Drinking Water	2.	2	0			0	0.00	1	0		1					
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	3	0	0.00	I 1	0	0.00	1	0	0.00	3	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
20.400	TOWARDIENE DI MILIOLE MATERICANDI E	Drinking Water	2.	2	0	0.00	I 1	0	0.00	1	0	0.00	2	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73		0	0.00	1	0	0.00				I	0	0.00			
20410	HERE CHI OR BUNHOUS WATER CANDIS	Drinking Water	3.	2	0	0.00	Į.	0	0.00				I	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00				I	0	0.00			
		Drinking Water	0.4	2	0	0.00	I	0	0.00				1	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	ļ	0	0.00				Į.	0	0.00			
	A COMPANY OF THE WAY OF THE CASE OF THE CA	Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00				1	0	0.00	1	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	1	0	0.00	1	0	0.00									
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	2	0	0.00				1	0	0.00	I	0	0.00			
	*	Drinking Water	1.	2	0	0.00				1	0	0.00	1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00				1	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	42	0	0.00	14	0	0.00	17	0	0.00	11	0	0.00			
		Drinking Water	2.	42	0	0.00	14	0	0.00	17	0	0.00	11	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	87	3	0.03	22	0	0.00	19	1	0.05	46	2	0.04			

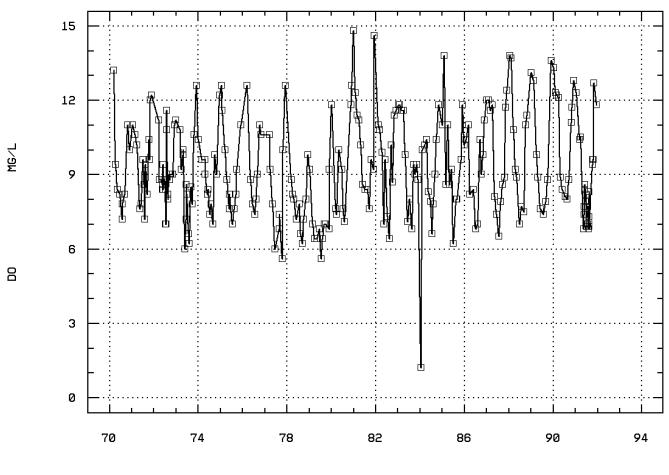
[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BOWA0014 Parameter Code: 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @



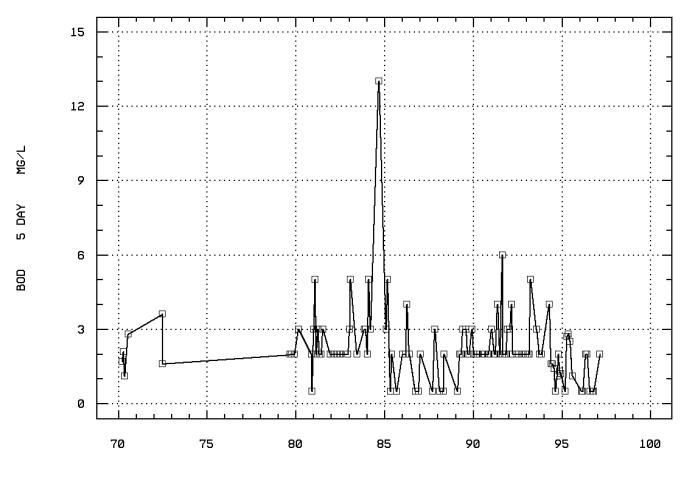
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00300
OXYGEN, DISSOLVED



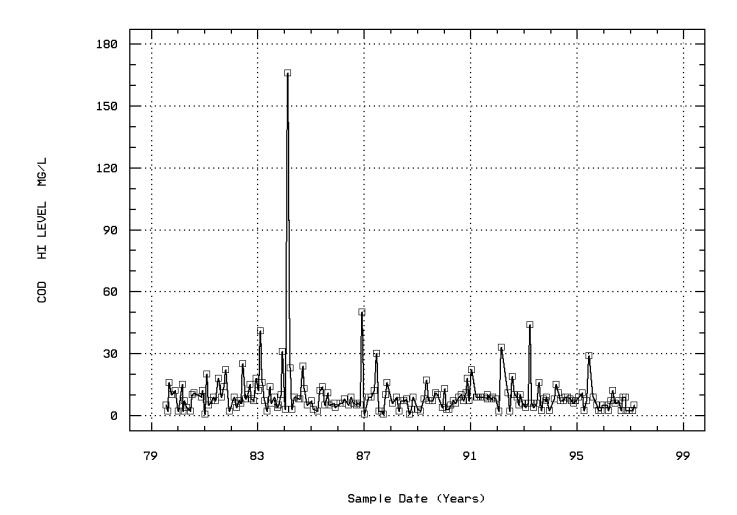
Sample Date (Years)

Station: BOWA0014 Parameter Code: 00310 BOD, 5 DAY, 20 DEG C



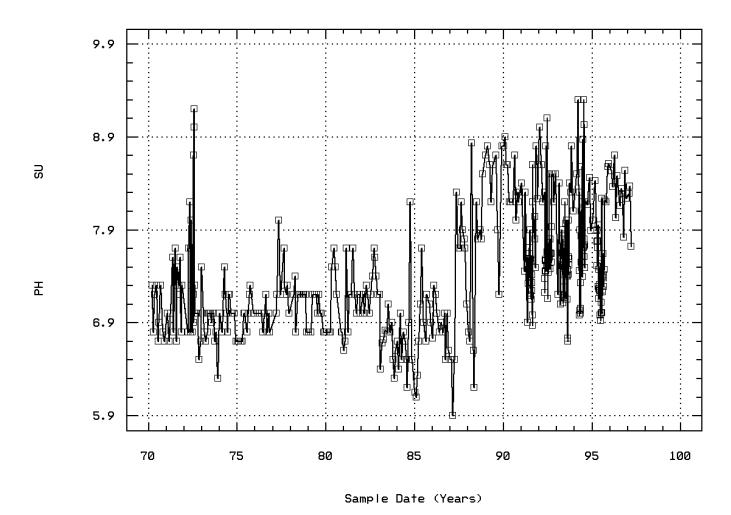
Sample Date (Years)

Station: BOWA0014 Parameter Code: 00340 COD, .25N K2CR207



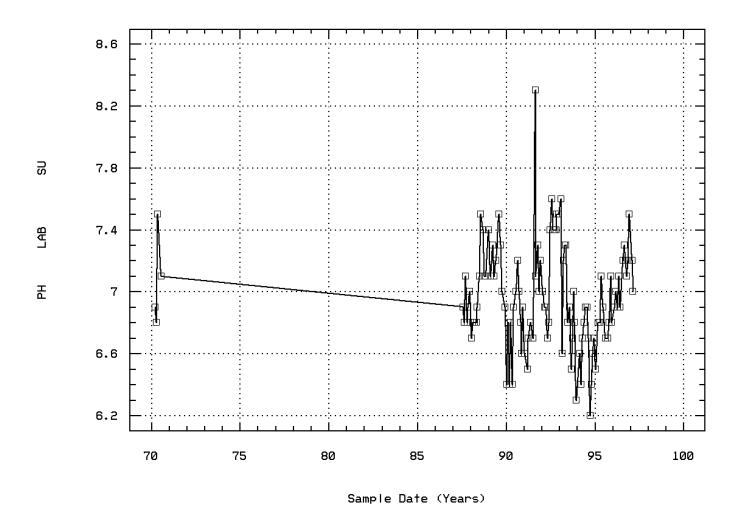
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00400
PH (STANDARD UNITS)



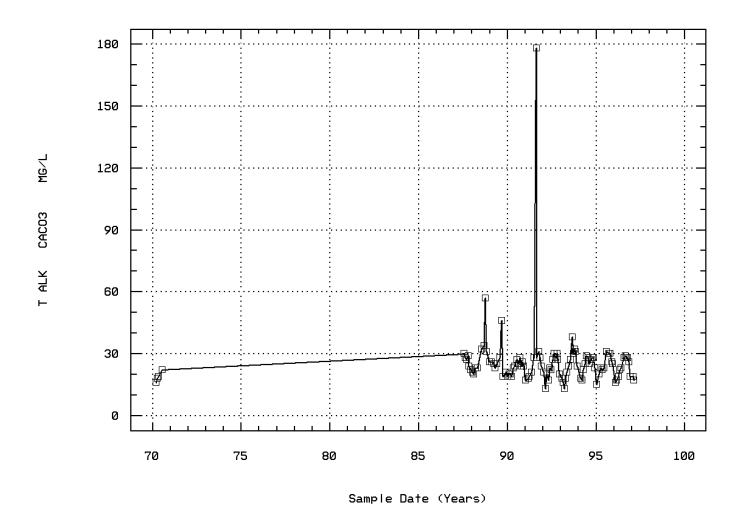
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00403 PH, LAB, STANDARD UNITS



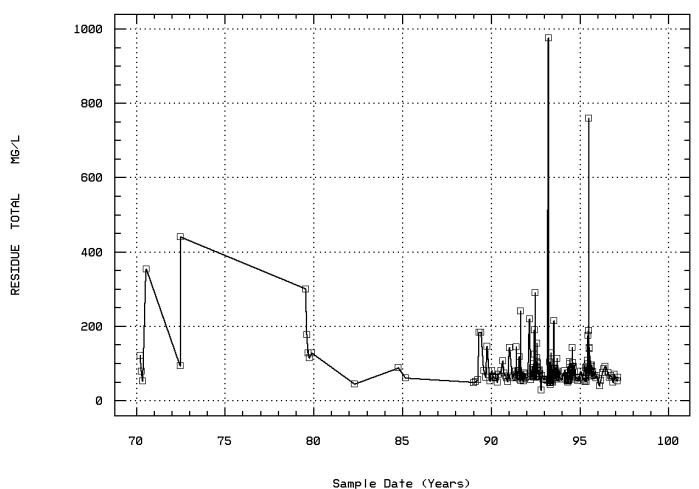
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00410 ALKALINITY, TOTAL (MG/L AS CACO3)

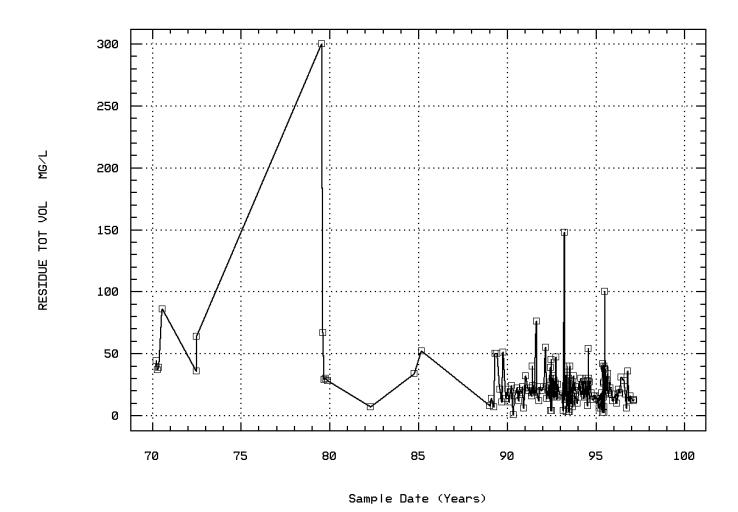


SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00500 RESIDUE, TOTAL (MG/L)

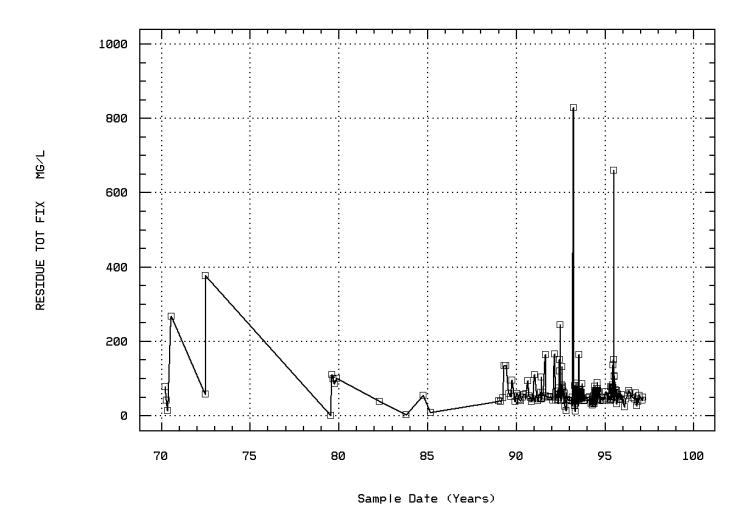


Station: BOWA0014 Parameter Code: 00505 RESIDUE, TOTAL VOLATILE (MG/L)



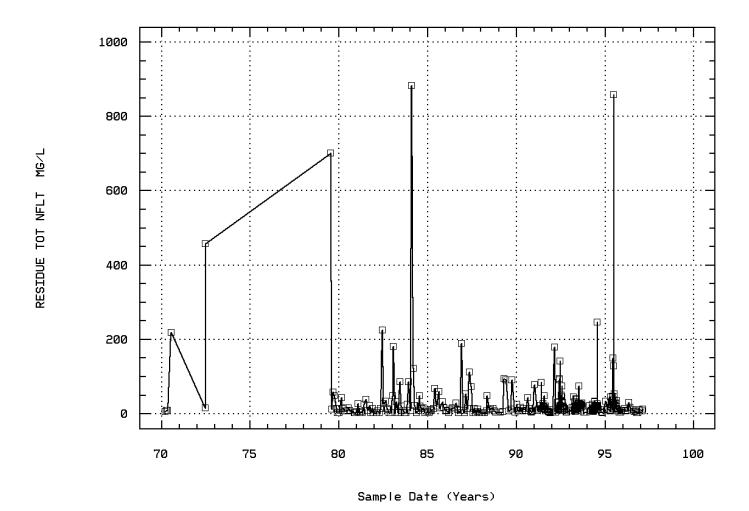
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00510 RESIDUE, TOTAL FIXED (MG/L)



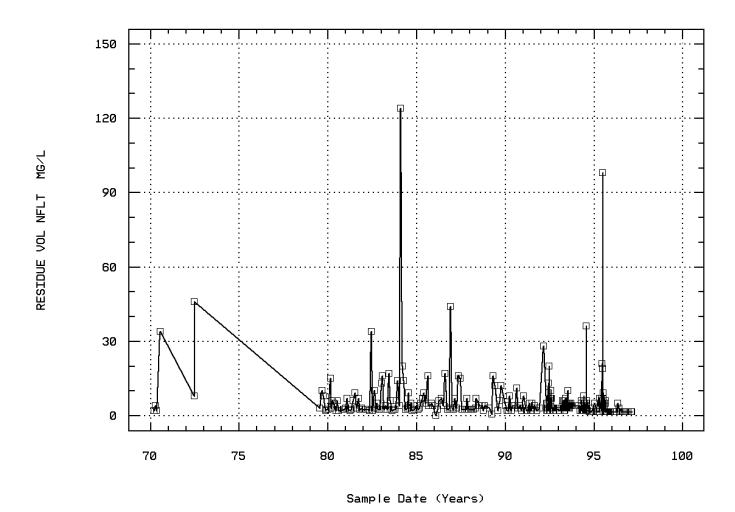
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)



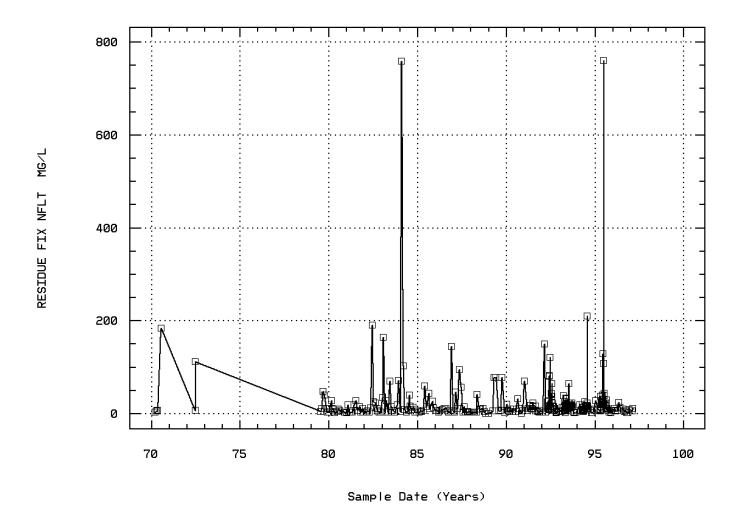
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)



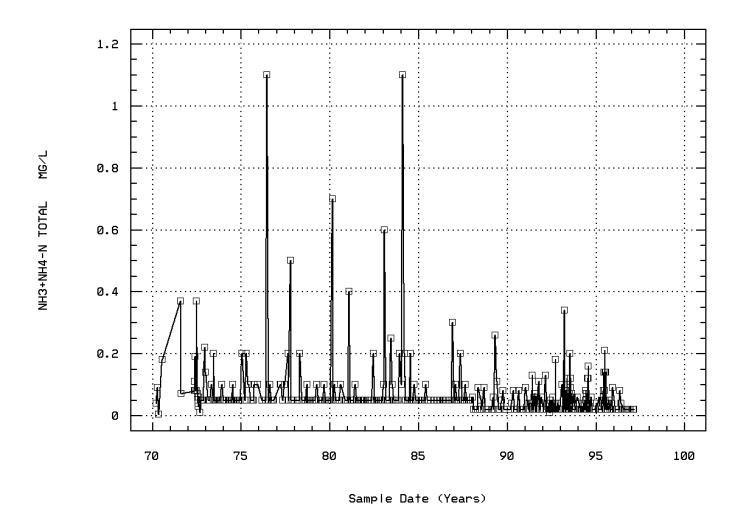
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00540 RESIDUE, FIXED NONFILTRABLE (MG/L)



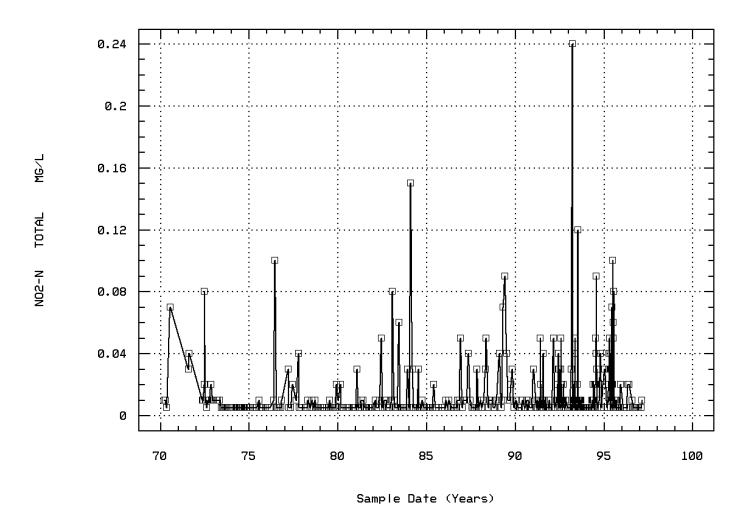
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



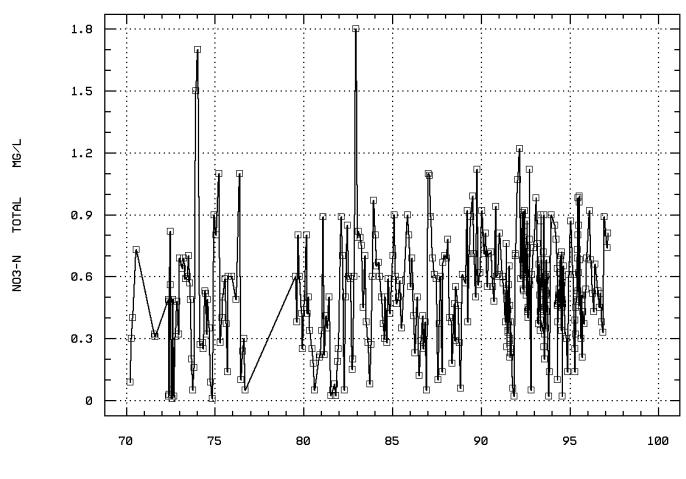
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



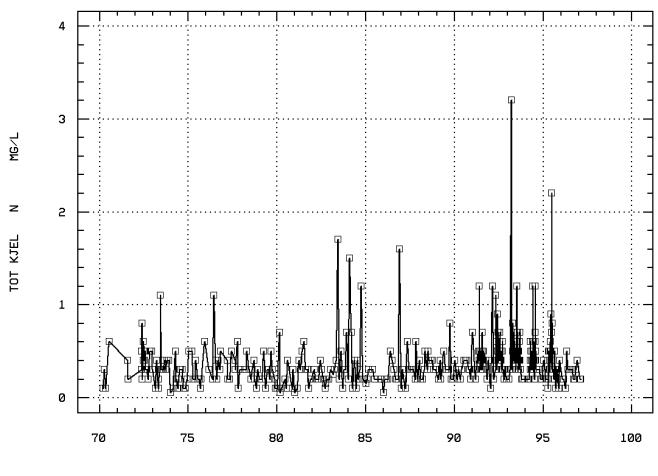
SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)



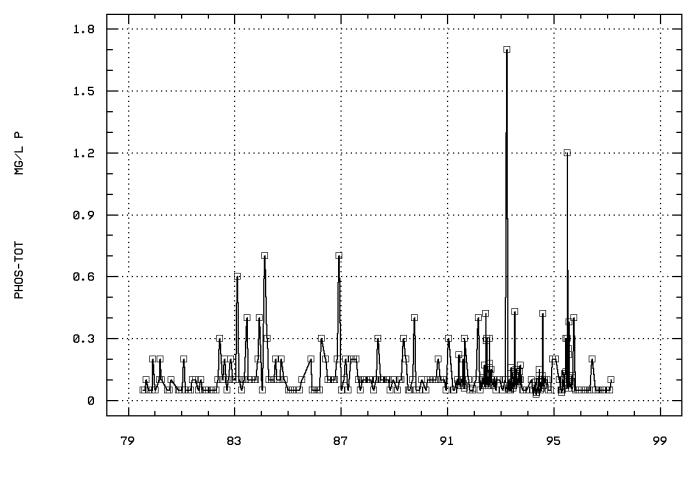
Sample Date (Years)

Station: BOWA0014 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



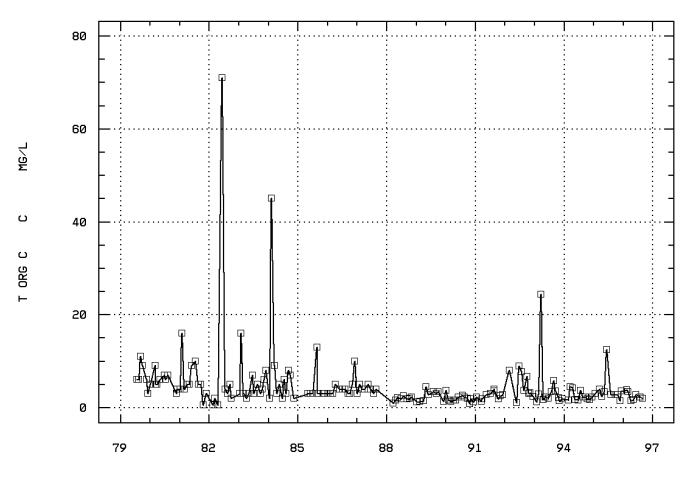
Sample Date (Years)

Station: BOWA0014 Parameter Code: 00665 PHOSPHORUS, TOTAL (MG/L AS P)



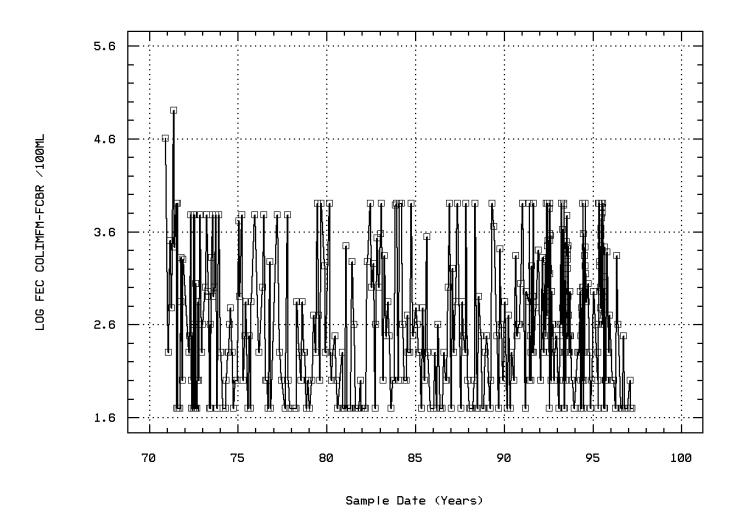
Sample Date (Years)

Station: BOWA0014 Parameter Code: 00680 CARBON, TOTAL ORGANIC (MG/L AS C)



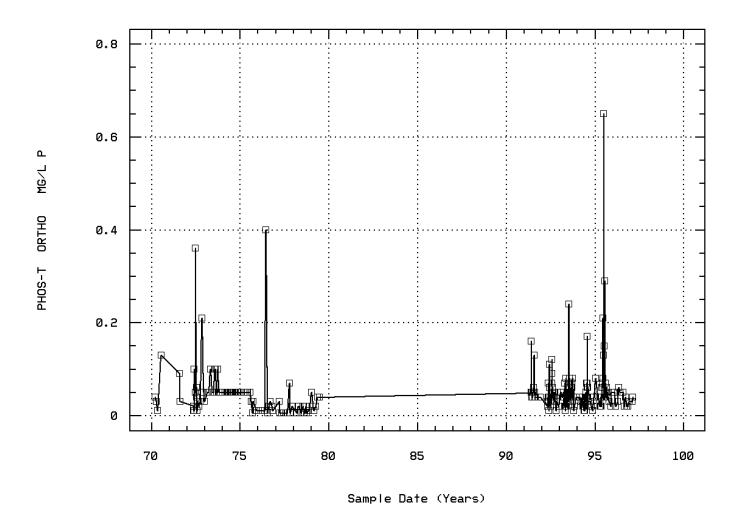
Sample Date (Years)

Station: BOWA0014 Parameter Code: 31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Station: BOWA0014 Parameter Code: 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/



SMITH MTN.LAKE, BROOKS MILL BR.RT.834 FR

Annual Analysis for 1970 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	9	16.7	17.6	25.6	7.2	62.553	7.909	7.2	9.45	25.6	25.6
00300p	OXYGEN, DISSOLVED MĜ/L	03/17/70-12/11/91	9	8.4	9.267	13.2	7.2	3.56	1.887	7.2	8.	10.5	13.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	4	1.9	1.925	2.8	1.1	0.509	0.714	**	**	**	**
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	9	6.9	7.	7.3	6.7	0.072	0.269	6.7	6.75	7.3	7.3
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	9	6.9	6.931	7.3	6.7	0.078	0.279	6.7	6.75	7.3	7.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	9	0.126	0.117	0.2	0.05	0.004	0.065	0.05	0.05	0.179	0.2
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	4	7.	7.075	7.5	6.8	0.096	0.31	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	4	6.989	7.005	7.5	6.8	0.102	0.32	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	4	0.103	0.099	0.158	0.032	0.003	0.055	**	**	**	**
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	4	18.5	18.75	22.	16.	6.25	2.5	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	4	99.5	151.25	353.	53.	18878.917	137.401	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	4	41.5	51.5	86.	37.	537.667	23.188	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	4	59.	99.75	267.	14.	13098.25	114.448	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	4	8.5	60.	218.	5.	11098.	105.347	**	**	**	**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	4	3.	10.5	34.	2.	246.333	15.695	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	4	5.5	49.5	184.	3.	8041.667	89.675	**	**	**	**
00610p	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	4	0.065	0.079	0.18	0.005	0.006	0.076	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	4	0.01	0.024	0.07	0.005	0.001	0.031	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	4	0.35	0.38	0.73	0.09	0.071	0.267	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	4	0.2	0.275	0.6	0.1	0.056	0.236	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	1	40000.	40000.	40000.	40000.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	1	4.602	4.602	4.602	4.602	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	V =		40000.								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	4	0.05	0.069	0.15	0.025	0.003	0.055	**	**	**	**
70507p	PHOSPHORÚS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	4	0.035	0.053	0.13	0.01	0.003	0.053	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	14	19.7	16.457	24.4	3.9	68.247	8.261	4.45	6.425	24.025	24.4
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	14	9.6	9.6	12.2	7.2	2.498	1.581	7.4	8.1	10.7	12.1
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	14	7.25	7.179	7.7	6.7	0.122	0.349	6.7	6.8	7.525	7.65
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	14	7.247	7.056	7.7	6.7	0.138	0.372	6.7	6.8	7.525	7.65
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	14	0.057	0.088	0.2	0.02	0.004	0.065	0.023	0.03	0.158	0.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	2	0.22	0.22	0.37	0.07	0.045	0.212	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	2	0.315	0.315	0.32	0.31	0.	0.007	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	14	1350.	7696.429	80000.	50. 4404	127486.264	20986.364	50.	87.5	4400.	44000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	14	3.073	2.949	4.903	1.699	0.961	0.98	1.699	1.925	3.605	4.403
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		889.819								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	2	0.06	0.06	0.09	0.03	0.002	0.042	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1972 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	21	21.1	20.329	30.6	8.9	33.415	5.781	11.76	15.6	25.6	26.7
00300p	OXYGEN, DISSOLVED MĜ/L	03/17/70-12/11/91	21	8.8	9.01	11.6	7.	1.502	1.226	7.2	8.4	9.2	11.16
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	2	2.6	2.6	3.6	1.6	2.	1.414	**	**	**	**
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	20	7.1	7.44	9.2	6.5	0.63	0.794	6.71	6.825	7.925	8.97

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Annual Analysis for 1972 - Station BOWA0014

Paramete	T.	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	20	7.089	7.06	9.2	6.5	0.782	0.884	6.71	6.825	7.925	8.97
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	20	0.082	0.087	0.316	0.001	0.007	0.083	0.001	0.012	0.15	0.195
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	2	267.	267.	440.	94.	59858.	244.659	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	2	50.	50.	64.	36.	392.	19.799	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	2	217.	217.	376.	58.	50562.	224.86	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	2	236.	236.	457.	15.	97682.	312.541	**	**	**	**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	2	27.	27.	46.	8.	722.	26.87	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	2	59.	59.	111.	7.	5408.	73.539	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	15	0.07	0.1	0.37	0.01	0.009	0.094	0.022	0.05	0.11	0.28
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	15	0.01	0.016	0.08	0.005	0.	0.018	0.008	0.01	0.01	0.044
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	15	0.31	0.275	0.82	0.01	0.071	0.267	0.01	0.02	0.49	0.664
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	15	0.4	0.42	0.8	0.2	0.026	0.161	0.2	0.3	0.5	0.68
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	22	250.	1561.364	6000.	50.	5129983.766	2475.88	50.	87.5	2325.	6000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	22	2.389	2.561	3.778	1.699	0.6	0.775	1.699	1.925	3.226	3.778
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	[=		363.593								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	15 ##	0.05	0.09	0.5	0.05	0.014	0.12	0.05	0.05	0.05	0.32
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	15	0.03	0.067	0.36	0.01	0.009	0.096	0.01	0.01	0.06	0.27

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Annual Analysis for 1973 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	16	17.25	17.613	26.7	6.1	53.195	7.293	6.52	13.3	25.3	25.93
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	16	8.9	9.119	12.6	6.	4.423	2.103	6.14	7.35	10.75	12.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	16	6.95	6.862	7.5	6.3	0.083	0.287	6.3	6.725	7.	7.15
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	16	6.947	6.767	7.5	6.3	0.092	0.304	6.3	6.725	7.	7.15
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	16	0.113	0.171	0.501	0.032	0.018	0.136	0.079	0.1	0.189	0.501
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	14 ##	0.05	0.078	0.2	0.05	0.002	0.046	0.05	0.05	0.1	0.17
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	14 ##	0.005	0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	14	0.595	0.576	1.5	0.05	0.115	0.34	0.105	0.418	0.69	1.1
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	03/17/70-02/18/97	14	0.3	0.35	1.099	0.1	0.056	0.238	0.1	0.275	0.4	0.75
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	15	900.	2103.333	6000.	50.	6176238.095	2485.204	50.	400.	6000.	6000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	15	2.954	2.9	3.778	1.699	0.556	0.746	1.699	2.602	3.778	3.778
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		793.874								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	14 ##	0.05	0.057	0.1	0.05	0.	0.018	0.05	0.05	0.05	0.1
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	14 ##	0.05	0.066	0.1	0.03	0.001	0.026	0.04	0.05	0.1	0.1

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Annual Analysis for 1974 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	12	19.15	16.808	25.6	3.3	43.563	6.6	4.98	10.825	21.55	24.58
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	12	9.	9.033	12.2	7.	2.05	1.432	7.12	7.9	9.75	11.66
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	12	7.	7.033	7.5	6.7	0.048	0.219	6.73	6.85	7.2	7.41
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	12	7.	6.987	7.5	6.7	0.05	0.224	6.73	6.85	7.2	7.41
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	12	0.1	0.103	0.2	0.032	0.002	0.048	0.041	0.063	0.144	0.187
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	0.05	0.054	0.1	0.05	0.	0.014	0.05	0.05	0.05	0.085
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12	0.335	0.476	1.699	0.01	0.202	0.449	0.034	0.255	0.528	1.459
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	12	0.2	0.204	0.5	0.05	0.017	0.129	0.065	0.1	0.3	0.44
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	12	150.	187.5	600.	50.	26875.	163.936	50.	62.5	200.	540.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	12	2.151	2.14	2.778	1.699	0.124	0.352	1.699	1.774	2.301	2.725
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		138.071								

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Annual Analysis for 1974 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	12 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	12 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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Annual Analysis for 1975 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	11	16.7	15.455	25.6	3.3	61.527	7.844	3.42	7.2	21.1	25.36
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	11	8.8	9.255	12.6	7.	3.329	1.824	7.12	7.6	11.	12.4
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	7.	6.918	7.3	6.7	0.046	0.214	6.7	6.7	7.	7.28
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	7.	6.874	7.3	6.7	0.048	0.219	6.7	6.7	7.	7.28
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.1	0.134	0.2	0.05	0.003	0.059	0.053	0.1	0.2	0.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	10	0.1	0.1	0.2	0.05	0.003	0.058	0.05	0.05	0.125	0.2
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	10 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	10	0.545	0.538	1.099	0.14	0.074	0.272	0.154	0.348	0.65	1.069
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	03/17/70-02/18/97	10	0.2	0.31	0.6	0.1	0.03	0.173	0.11	0.2	0.5	0.59
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	700.	1836.364	6000.	50.	6376045.455	2525.083	50.	100.	5200.	6000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	2.845	2.747	3.778	1.699	0.601	0.775	1.699	2.	3.716	3.778
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	[=		558.561								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	10 ##	0.05	0.09	0.2	0.05	0.004	0.061	0.05	0.05	0.125	0.2
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	10 ##	0.05	0.037	0.05	0.005	0.	0.018	0.006	0.025	0.05	0.05

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Annual Analysis for 1976 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	8	20.85	18.613	27.8	5.	58.707	7.662	**	**	**	**
00300p	OXYGEN, DISSOLVED MĞ/L	03/17/70-12/11/91	8	8.9	9.4	12.6	7.4	3.326	1.824	**	**	**	**
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	8	7.	6.95	7.2	6.8	0.02	0.141	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	8	7.	6.931	7.2	6.8	0.02	0.143	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	8	0.1	0.117	0.158	0.063	0.001	0.036	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	8 ##	0.05	0.187	1.099	0.05	0.136	0.369	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	8 ##	0.005	0.018	0.1	0.005	0.001	0.033	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	6	0.27	0.38	1.099	0.05	0.148	0.385	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	8	0.35	0.425	1.099	0.2	0.085	0.291	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	8	150.	1175.	6000.	50. 4	232857.143	2057.391	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	8	2.151	2.469	3.778	1.699	0.615	0.784	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	=		294.771								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	8 ##	0.05	0.119	0.6	0.05	0.038	0.194	**	**	**	**
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	8	0.015	0.063	0.4	0.005	0.019	0.136	**	**	**	**

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Annual Analysis for 1977 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	9	14.	11.522	24.	0.3	63.227	7.952	0.3	2.7	16.5	24.
00300p	OXYGEN, DISSOLVED MĜ/L	03/17/70-12/11/91	9	7.8	8.444	12.6	5.6	5.398	2.323	5.6	6.4	10.3	12.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	9	7.2	7.322	8.	7.	0.107	0.327	7.	7.1	7.5	8.
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	9	7.2	7.239	8.	7.	0.115	0.339	7.	7.1	7.5	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	9	0.063	0.058	0.1	0.01	0.001	0.031	0.01	0.035	0.082	0.1

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Annual Analysis for 1977 - Station BOWA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	9	0.1	0.133	0.5	0.05	0.021	0.146	0.05	0.05	0.15	0.5
00615p	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	03/17/70-02/18/97	9	0.01	0.014	0.04	0.005	0.	0.013	0.005	0.005	0.025	0.04
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	9	0.3	0.333	0.6	0.1	0.025	0.158	0.1	0.2	0.45	0.6
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	8	100.	1575.	6000.	50. 7	7461428.571	2731.562	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	8	2.	2.407	3.778	1.699	0.753	0.868	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =	=		255.217								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	9 ##	0.05	0.072	0.2	0.05	0.003	0.051	0.05	0.05	0.075	0.2
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	9 ##	0.005	0.017	0.07	0.005	0.	0.022	0.005	0.005	0.025	0.07

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Annual Analysis for 1978 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	10	15.5	16.7	26.	3.	58.456	7.646	3.7	11.5	24.5	26.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	10	7.9	7.78	9.8	6.2	1.106	1.052	6.24	7.05	8.35	9.7
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	10	7.2	7.14	7.4	6.8	0.036	0.19	6.8	7.1	7.2	7.38
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	10	7.2	7.098	7.4	6.8	0.038	0.195	6.8	7.1	7.2	7.38
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	10	0.063	0.08	0.158	0.04	0.002	0.042	0.042	0.063	0.087	0.158
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	10 ##	0.05	0.07	0.2	0.05	0.002	0.048	0.05	0.05	0.063	0.19
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	10 ##	0.005	0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	10	0.3	0.29	0.5	0.1	0.012	0.11	0.11	0.2	0.325	0.49
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	150.	235.	700.	50.	63916.667	252.817	50.	50.	325.	700.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	2.151	2.169	2.845	1.699	0.187	0.433	1.699	1.699	2.437	2.845
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		147.577								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	10 ##	0.05	0.055	0.1	0.05	0.	0.016	0.05	0.05	0.05	0.095
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	10	0.015	0.013	0.02	0.005	0.	0.008	0.005	0.005	0.02	0.02

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Annual Analysis for 1979 - Station BOWA0014

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	10	17.	15.85	24.5	2.	50.892	7.134	2.4	12.	22.	24.25
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	6	60.	127.5	500.	30.	33457.5	182.914	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	11	6.8	7.073	9.2	5.6	1.274	1.129	5.76	6.4	7.	9.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	6	1.5	1.5	2.	1.	0.3	0.548	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	5	10.	9.	16.	2.	31.	5.568	**	**	**	**
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	7.	7.	7.2	6.8	0.032	0.179	6.8	6.8	7.2	7.2
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	7.	6.967	7.2	6.8	0.033	0.182	6.8	6.8	7.2	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.1	0.108	0.158	0.063	0.002	0.043	0.063	0.063	0.158	0.158
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	5	128.	169.4	300.	115.	5896.3	76.787	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	5	30.	90.8	300.	28.	13947.7	118.1	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	5	98.	78.6	110.	0.	2009.8	44.831	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	6	30.5	138.583	700.	2.5	76123.442	275.905	**	**	**	**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	6	2.75	4.417	10.	1.	13.442	3.666	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	6	10.5	19.083	47.	2.5	373.442	19.325	**	**	**	**
00610p	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	11 ##	0.05	0.059	0.1	0.05	0.	0.02	0.05	0.05	0.05	0.1
00615p	NITRITE NÍTROGEN, TÓTAL (MĜ/L AS N)	03/17/70-02/18/97	11##	0.005	0.007	0.02	0.005	0.	0.005	0.005	0.005	0.005	0.018
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	6	0.51	0.508	0.8	0.25	0.039	0.196	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	11	0.2	0.264	0.5	0.1	0.019	0.136	0.1	0.2	0.3	0.5
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	6 ##	0.05	0.083	0.2	0.05	0.004	0.061	**	**	**	**
00671p	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	6	0.025	0.033	0.09	0.01	0.001	0.029	**	**	**	**
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	6	6.	6.833	11.	3.	7.767	2.787	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	350.	1935.	8000.	50. 1	0450027.778	3232.65	55.	100.	3275.	8000.

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Annual Analysis for 1979 - Station BOWA0014

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	2.5	2.674	3.903	1.699	0.608	0.78	1.729	2.	3.399	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		471.585								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	5 #	# 0.05	0.06	0.1	0.05	0.001	0.022	**	**	**	**
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	5	0.04	0.032	0.05	0.01	0.	0.016	**	**	**	**

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Annual Analysis for 1980 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	8	12.	12.275	27.5	2.7	81.162	9.009	**	**	**	**
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	9	45.	51.556	78.	35.	262.778	16.21	35.	40.	69.5	78.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	9	9.2	9.456	12.6	7.1	4.738	2.177	7.1	7.5	11.8	12.6
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	10	1.	1.25	3.	0.5	0.514	0.717	0.55	1.	1.25	2.9
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	10	8.	7.4	15.	2.	22.267	4.719	2.	2.	11.25	14.7
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	9	6.8	7.1	7.7	6.8	0.143	0.377	6.8	6.8	7.5	7.7
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	9	6.8	6.982	7.7	6.8	0.158	0.398	6.8	6.8	7.5	7.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	9	0.158	0.104	0.158	0.02	0.004	0.065	0.02	0.032	0.158	0.158
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	8.	11.55	43.	2.5	146.525	12.105	2.5	2.5	15.	40.2
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	2.75	4.65	15.	2.	15.725	3.965	2.	2.375	6.	14.1
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	5.5	7.65	28.	2.	60.947	7.807	2.05	2.5	9.25	26.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	10 ##	0.05	0.125	0.7	0.05	0.041	0.203	0.05	0.05	0.1	0.64
00615p	NITRITE NITROGEN, TOTAL (MĜ/L AS N)	03/17/70-02/18/97	10 ##	0.005	0.007	0.02	0.005	0.	0.005	0.005	0.005	0.006	0.019
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	10	0.295	0.344	0.8	0.05	0.045	0.213	0.063	0.203	0.478	0.77
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	9	0.1	0.228	0.7	0.05	0.044	0.211	0.05	0.1	0.35	0.7
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	9 ##	0.05	0.083	0.2	0.05	0.003	0.05	0.05	0.05	0.1	0.2
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	10	0.02	0.023	0.04	0.01	0.	0.013	0.01	0.01	0.04	0.04
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	10	5.5	5.7	9.	3.	2.9	1.703	3.1	4.75	7.	8.8
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	9	200.	1022.222	8000.	50. 68	353819.444	2617.98	50.	75.	250.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	9	2.301	2.298	3.903	1.699	0.438	0.662	1.699	1.849	2.389	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		198.571								

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Annual Analysis for 1981 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	12	10.7	11.608	27.	0.2	80.772	8.987	0.5	2.475	19.3	25.44
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	12	60.	63.333	110.	30.	492.424	22.191	33.	50.	78.75	104.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	12	9.9	10.525	14.8	7.6	5.751	2.398	7.84	8.45	12.075	14.74
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	2.	2.273	5.	1.	1.418	1.191	1.	1.	3.	4.6
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	12	8.	9.542	22.	0.5	54.703	7.396	0.65	2.75	17.	21.4
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	12	7.2	7.125	7.7	6.6	0.117	0.341	6.63	6.85	7.2	7.7
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	12	7.2	7.013	7.7	6.6	0.13	0.361	6.63	6.85	7.2	7.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	12	0.063	0.097	0.251	0.02	0.005	0.071	0.02	0.063	0.144	0.236
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	7.	12.583	37.	2.5	139.083	11.793	2.5	2.5	23.5	33.7
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	3.	4.167	9.	2.	5.697	2.387	2.15	2.5	6.75	8.4
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	4.5	9.25	28.	2.	76.477	8.745	2.15	2.5	17.25	25.3
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	0.05	0.083	0.4	0.05	0.01	0.101	0.05	0.05	0.05	0.31
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	0.005	0.008	0.03	0.005	0.	0.007	0.005	0.005	0.009	0.024
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12	0.235	0.278	0.89	0.025	0.062	0.249	0.025	0.058	0.395	0.773
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	12	0.3	0.338	1.	0.05	0.071	0.266	0.065	0.125	0.475	0.88
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	12 ##	0.05	0.075	0.2	0.05	0.002	0.045	0.05	0.05	0.1	0.17
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	12	0.02	0.03	0.11	0.01	0.001	0.027	0.01	0.013	0.038	0.089
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	12	5.	5.625	16.	0.5	18.142	4.259	0.65	3.25	8.	14.2

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Annual Analysis for 1981 - Station BOWA0014

Para	meter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
316		11/30/70-03/18/97	12 ##	50.	466.667	2800.	50.	820606.061	905.873	50.	50.	325.	2530.
316	6p LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	12 ##	1.699	2.077	3.447	1.699	0.431	0.657	1.699	1.699	2.452	3.397
316	.6p GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	=		119.301								

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Annual Analysis for 1982 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	11	16.5	13.809	24.9	5.	56.451	7.513	5.1	5.9	21.2	24.28
00094p	SPECIFIC CONDUCTANCÈ, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	11	65.	64.091	90.	40.	324.091	18.003	40.	50.	80.	90.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	11	9.9	9.445	11.6	6.4	3.393	1.842	6.52	7.3	11.	11.56
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	2.	1.636	2.	1.	0.255	0.505	1.	1.	2.	2.
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	8.	10.636	25.	4.	38.855	6.233	4.4	7.	15.	23.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	7.2	7.291	7.7	7.	0.049	0.221	7.	7.2	7.4	7.68
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	7.2	7.244	7.7	7.	0.051	0.227	7.	7.2	7.4	7.68
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.063	0.057	0.1	0.02	0.001	0.026	0.021	0.04	0.063	0.1
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	10.	30.636	224.	2.5	4219.555	64.958	2.5	2.5	27.	185.8
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	2.5	6.091	34.	1.	91.591	9.57	1.2	2.	5.	29.2
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	5.	25.455	190.	2.5	3044.573	55.178	2.5	2.5	23.	157.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	11#		0.064	0.2	0.05	0.002	0.045	0.05	0.05	0.05	0.17
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11#		0.011	0.05	0.005	0.	0.013	0.005	0.005	0.01	0.042
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11	0.6	0.63	1.8	0.05	0.226	0.476	0.07	0.2	0.85	1.618
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	11	0.2	0.223	0.4	0.1	0.007	0.082	0.11	0.2	0.3	0.38
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	11	0.1	0.118	0.3	0.05	0.007	0.081	0.05	0.05	0.2	0.28
00671p	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	11	0.04	0.067	0.18	0.02	0.003	0.054	0.022	0.03	0.12	0.172
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	11	2.	8.273	71.	0.5	434.968	20.856	0.5	1.	4.	57.8
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	1000.	1765.	8000.		936138.889	2436.419	50.	50.	2275.	7540.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	3.	2.767	3.903	1.699	0.659	0.812	1.699	1.699	3.342	3.866
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	[=		584.462								

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Annual Analysis for 1983 - Station BOWA0014

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	12	11.25	12.208	27.8	2.9	59.252	7.698	3.47	5.625	19.375	25.91
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	12	45.	50.833	80.	40.	190.152	13.79	40.	40.	60.	77.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	12	9.4	9.592	11.8	6.8	3.223	1.795	6.89	8.2	11.6	11.8
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	12	1.	1.917	5.	1.	1.72	1.311	1.	1.	3.	4.4
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	12	9.5	13.083	41.	2.	135.902	11.658	2.6	5.25	15.5	38.
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	12	6.76	6.735	7.2	6.3	0.07	0.265	6.33	6.525	6.88	7.17
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	12	6.758	6.664	7.2	6.3	0.076	0.275	6.33	6.525	6.88	7.17
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	12	0.175	0.217	0.501	0.063	0.017	0.131	0.068	0.132	0.3	0.47
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	22.	41.	180.	2.5	2831.545	53.212	2.5	2.5	75.5	151.8
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	5.	7.333	17.	2.	34.697	5.89	2.15	2.5	13.75	16.7
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	18.	37.409	164.	2.5	2381.891	48.805	2.5	2.5	69.	145.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	0.05	0.133	0.6	0.05	0.026	0.161	0.05	0.05	0.175	0.495
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	0.005	0.019	0.08	0.005	0.001	0.025	0.005	0.005	0.025	0.074
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	12	0.65	0.573	0.97	0.08	0.076	0.275	0.137	0.305	0.79	0.925
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	12	0.3	0.504	1.7	0.1	0.201	0.448	0.13	0.263	0.65	1.49

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	12	0.1	0.196	0.6	0.05	0.03	0.174	0.065	0.1	0.35	0.54
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	11	0.06	0.09	0.24	0.02	0.006	0.077	0.02	0.05	0.13	0.238
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	12	3.5	5.25	16.	2.	14.932	3.864	2.3	3.	6.75	13.6
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	12	500.	2612.5	8000.	50. 11.	397329.545	3375.993	65.	100.	6725.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	12	2.661	2.843	3.903	1.699	0.712	0.844	1.789	2.	3.81	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	V =		696.251								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	11	11.	14.009	23.5	4.	54.371	7.374	4.2	8.8	20.8	23.5
00094p	SPECIFIC CONDUCTANCÈ, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	10	57.5	54.6	70.	40.	137.156	11.711	40.	40.	63.25	70.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	11	9.	8.509	11.8	1.2	8.129	2.851	2.28	7.8	10.4	11.52
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	1.	2.727	13.	1.	13.218	3.636	1.	1.	3.	11.4
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	8.	23.909	166.	1.	2279.491	47.744	1.4	3.	23.	137.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	6.7	6.764	8.2	6.2	0.281	0.53	6.24	6.5	6.9	7.96
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	6.7	6.599	8.2	6.2	0.31	0.557	6.24	6.5	6.9	7.96
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.2	0.252	0.631	0.006	0.029	0.171	0.025	0.126	0.316	0.584
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	1	88.	88.	88.	88.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	15.	104.	882.	2.5	67757.15	260.302	2.5	8.	48.	730.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	4.	17.273	124.	2.	1285.368	35.852	2.1	2.5	14.	103.2
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	8.	87.182	758.	2.5	50349.914	224.388	2.5	4.	39.	626.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	11##	0.05	0.182	1.1	0.05	0.096	0.31	0.05	0.05	0.2	0.92
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11##		0.023	0.15	0.005	0.002	0.043	0.005	0.005	0.03	0.126
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11	0.5	0.516	0.8	0.28	0.027	0.164	0.284	0.37	0.65	0.774
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	11	0.3	0.482	1.5	0.1	0.218	0.467	0.1	0.2	0.7	1.44
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	11	0.1	0.186	0.7	0.05	0.034	0.185	0.06	0.1	0.2	0.62
00671p	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	10	0.075	0.083	0.22	0.04	0.003	0.053	0.041	0.05	0.087	0.209
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	11	5.	8.364	45.	2.	154.055	12.412	2.	2.	8.	37.8
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	300.	2354.545	8000.	100. 13	162727.273	3628.047	100.	100.	8000.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	2.477	2.735	3.903	2.	0.618	0.786	2.	2.	3.903	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	[=		543.76								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	11	9.	11.609	24.	0.	69.677	8.347	0.6	5.5	21.	23.42
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	07/23/79-03/18/97	11	60.	53.636	70.	35.	146.255	12.094	36.	40.	63.	69.4
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	11	9.2	9.618	13.8	6.2	4.524	2.127	6.56	8.	11.	13.4
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	1.	1.545	5.	0.5	1.823	1.35	0.5	1.	2.	4.6
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	5.	6.364	14.	1.	18.055	4.249	1.2	3.	11.	13.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	6.9	6.807	7.7	6.1	0.232	0.482	6.11	6.33	7.1	7.6
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	6.9	6.585	7.7	6.1	0.287	0.536	6.11	6.33	7.1	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.126	0.26	0.794	0.02	0.073	0.271	0.029	0.079	0.468	0.777
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	15.	22.682	68.	2.5	469.614	21.671	3.	9.	31.	66.2
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	5.	5.864	16.	2.5	14.605	3.822	2.6	4.	7.	14.6

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Annual Analysis for 1985 - Station BOWA0014

Paramete	r e e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	11.	17.045	59.	1.	342.123	18.497	1.3	4.	26.	55.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	9 ##	0.05	0.056	0.1	0.05	0.	0.017	0.05	0.05	0.05	0.1
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	9 ##	0.005	0.007	0.02	0.005	0.	0.005	0.005	0.005	0.005	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	9	0.6	0.644	0.9	0.35	0.038	0.194	0.35	0.485	0.85	0.9
00625p	NITROGEN, KJELDAĤL, TOTAĽ, (MG/L AŚ N)	03/17/70-02/18/97	7	0.2	0.221	0.3	0.15	0.003	0.057	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	7 ##	0.05	0.079	0.2	0.05	0.003	0.057	**	**	**	**
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	9	0.04	0.052	0.08	0.03	0.	0.018	0.03	0.04	0.07	0.08
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	11	3.	3.182	13.	1.	11.564	3.401	1.	1.	3.	11.
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	200.	590.	3500.	50. 1	087111.111	1042.646	50.	87.5	600.	3210.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	2.301	2.4	3.544	1.699	0.312	0.559	1.699	1.925	2.778	3.467
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	V =		251.389								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	11	15.2	13.991	26.	4.2	59.347	7.704	4.26	7.	20.	25.5
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	07/23/79-03/18/97	11	60.	62.818	100.	40.	319.364	17.871	40.	50.	70.	96.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	11	9.8	9.309	11.2	6.8	2.363	1.537	6.84	8.2	10.4	11.16
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	1.	1.455	4.	0.5	1.023	1.011	0.5	1.	2.	3.6
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	6.	9.727	50.	1.	182.418	13.506	1.8	5.	8.	41.8
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	6.9	6.894	7.3	6.5	0.058	0.241	6.52	6.73	7.	7.28
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	6.9	6.835	7.3	6.5	0.062	0.248	6.52	6.73	7.	7.28
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.126	0.146	0.316	0.05	0.006	0.08	0.053	0.1	0.186	0.303
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	10.	26.818	188.	2.5	2907.714	53.923	2.5	7.	15.	156.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	3.5	8.7	44.	0.	176.844	13.298	0.1	2.125	9.5	41.3
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	7.	18.909	144.	2.5	1729.441	41.587	2.5	5.	11.	117.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	11 ##	0.05	0.073	0.3	0.05	0.006	0.075	0.05	0.05	0.05	0.25
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11##	0.005	0.011	0.05	0.005	0.	0.013	0.005	0.005	0.01	0.042
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	11	0.38	0.353	0.69	0.05	0.036	0.189	0.064	0.23	0.5	0.662
00625p	NITROGEN, KJELDAĤL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	11	0.2	0.368	1.6	0.05	0.181	0.426	0.08	0.2	0.4	1.38
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	11	0.1	0.177	0.7	0.05	0.036	0.19	0.05	0.05	0.2	0.62
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	11	0.08	0.089	0.27	0.02	0.005	0.068	0.022	0.04	0.1	0.24
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	11	4.	4.273	10.	3.	4.218	2.054	3.	3.	5.	9.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	6	31.5	31.5	36.	26.	19.1	4.37	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	100.	927.273	8000.	50. 53	581181.818	2362.453	50.	50.	400.	6600.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	2.	2.264	3.903	1.699	0.476	0.69	1.699	1.699	2.602	3.722
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	V =		183.619								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	12	9.85	11.892	25.1	1.5	74.186	8.613	1.59	4.85	19.8	24.29
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	12	50.	51.833	70.	35.	133.061	11.535	35.	42.5	63.75	68.5
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	12	10.25	9.908	12.4	6.5	4.777	2.186	6.77	7.95	11.95	12.28
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	12	1.	1.208	3.	0.5	0.43	0.656	0.65	1.	1.	2.7
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	9.	8.364	30.	0.5	80.205	8.956	0.5	1.	12.	27.2
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	12	7.7	7.317	8.3	5.9	0.62	0.787	6.08	6.5	7.875	8.27
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	12	7.7	6.701	8.3	5.9	1.033	1.016	6.08	6.5	7.875	8.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	12	0.02	0.199	1.259	0.005	0.129	0.359	0.005	0.013	0.316	0.976
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	6	6.9	6.917	7.1	6.8	0.014	0.117	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	6	6.9	6.904	7.1	6.8	0.014	0.118	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BOWA0014

Paramete	r e e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	6	0.126	0.125	0.158	0.079	0.001	0.031	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	6	27.5	26.667	30.	22.	9.467	3.077	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	9.5	24.75	111.	2.5	1233.023	35.114	2.5	2.5	43.25	99.3
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	3.	5.773	16.	2.5	26.168	5.115	2.5	2.5	7.	15.8
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	4.5	20.292	95.	2.5	892.475	29.874	2.5	2.5	38.	83.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	# 0.05	0.071	0.2	0.05	0.002	0.045	0.05	0.05	0.088	0.17
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12 ##	# 0.008	0.012	0.04	0.005	0.	0.011	0.005	0.005	0.01	0.037
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	12	0.64	0.629	1.1	0.1	0.1	0.316	0.112	0.425	0.843	1.097
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	12	0.3	0.292	0.6	0.1	0.026	0.162	0.1	0.2	0.3	0.6
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	12	0.1	0.121	0.2	0.05	0.004	0.062	0.05	0.063	0.2	0.2
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	11	0.06	0.065	0.16	0.02	0.001	0.038	0.022	0.04	0.08	0.146
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	8	4.	4.	5.	3.	0.571	0.756	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	11	24.	24.	30.	16.	14.4	3.795	17.2	22.	26.	29.6
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	300.	1809.091	8000.	50. 9	572409.091	3093.931	50.	100.	1600.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	2.477	2.653	3.903	1.699	0.603	0.776	1.699	2.	3.204	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	N =		449.273								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BOWA0014

D		Di. d . C D d	Ob-	M. E.	M	Mi	M:	X/	Ct-l D	1041-	2541-	75th	0041-
Parameter 00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	Period of Record 03/17/70-03/18/97	Obs 10	Median 12.5	Mean 13.36	Maximum 25.6	Minimum 1	Variance 76.88	Std. Dev. 8.768	10th 1.18	25th 6.475	22.975	90th 25.42
00010 00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	0	50.	57.	80.	33.	331.	18.193	33.	45.	80.	80.
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	10	10.	10.1	13.8	33. 7	6.002	2.45	7.05	7.65	11.975	13.79
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	10	10.	10.1	2	0.5	0.167	0.408	0.5	0.875	11.973	19.79
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	9	7.	5.722	9	0.5	9.819	3.134	0.5	2.5	8.5	9
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	10	7.8	7.533	8.83	6.2	0.802	0.896	6.24	6.675	8.275	8.797
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	10	7.8	6.888	8.83	6.2	1.265	1.125	6.24	6.675	8.275	8.797
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	10	0.016	0.13	0.631	0.001	0.04	0.2	0.002	0.006	0.212	0.593
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	10	7.	7.02	7.5	6.7	0.073	0.27	6.71	6.8	7.175	7.49
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	10	6.989	6.954	7.5	6.7	0.078	0.279	6.71	6.8	7.175	7.49
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	10	0.103	0.111	0.2	0.032	0.003	0.057	0.032	0.07	0.158	0.195
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	8	27.	30.125	57.	20.	146.982	12.124	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	6.	10.85	48.	2.5	188.725	13.738	2.5	2.5	13.25	44.6
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	2.75	3.25	7.	1.	2.681	1.637	1.1	2.375	4.	6.7
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	10	3.5	8.4	41.	0.5	142.378	11.932	0.7	2.5	9.25	37.9
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	11##	0.02	0.039	0.09	0.02	0.001	0.029	0.02	0.02	0.06	0.09
00615p	NITRITE NÍTROGEN, TÓTAL (MĠ/L AS N)	03/17/70-02/18/97	12	0.01	0.013	0.05	0.005	0.	0.013	0.005	0.005	0.01	0.044
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	12	0.43	0.429	0.78	0.06	0.044	0.21	0.096	0.283	0.595	0.753
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	12	0.35	0.35	0.5	0.2	0.01	0.1	0.2	0.3	0.4	0.5
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	12	0.1	0.108	0.3	0.05	0.004	0.063	0.05	0.1	0.1	0.24
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	12	0.05	0.054	0.17	0.005	0.002	0.043	0.007	0.03	0.068	0.143
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	8	1.95	1.9	2.5	0.9	0.237	0.487	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	10	26.	25.8	36.	20.	22.622	4.756	20.2	22.	28.	35.2
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	2	5.	5.	6.	4.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11 ##	50.	881.818	8000.		624136.364	2371.526	50.	50.	300.	6560.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11 ##	1.699	2.162	3.903	1.699	0.501	0.708	1.699	1.699	2.477	3.703
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		145.094								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BOWA0014

Paramete	t .	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	9	17.2	14.3	23.7	1.9	72.605	8.521	1.9	4.45	21.85	23.7
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	8	55.	56.25	80.	40.	283.929	16.85	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	6	73.	73.833	81.	68.	22.567	4.75	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	9	8.9	9.989	13.6	7.4	6.254	2.501	7.4	7.75	12.95	13.6
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	9	2.	2.056	3.	0.5	0.778	0.882	0.5	1.5	3.	3.
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	9	7.	7.667	17.	2.	21.5	4.637	2.	3.5	10.5	17.
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	9	8.6	8.389	8.8	7.2	0.289	0.537	7.2	8.05	8.75	8.8
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	9	8.6	7.98	8.8	7.2	0.476	0.69	7.2	8.05	8.75	8.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	9	0.003	0.01	0.063	0.002	0.	0.02	0.002	0.002	0.009	0.063
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	9	7.2	7.2	7.5	6.9	0.038	0.194	6.9	7.05	7.35	7.5
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	9	7.2	7.162	7.5	6.9	0.039	0.198	6.9	7.05	7.35	7.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	9	0.063	0.069	0.126	0.032	0.001	0.03	0.032	0.045	0.09	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	9	25.	26.556	46.	19.	60.778	7.796	19.	22.	27.	46.
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	9	62.	95.667	184.	47.	3430.25	58.568	47.	51.5	165.	184.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	9	14.	25.111	51.	7.	374.111	19.342	7.	9.5	50.	51.
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	9	51.	70.556	134.	37.	1606.778	40.085	37.	38.5	114.5	134.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	9	7.	34.	94.	1.	1859.5	43.122	1.	3.5	90.	94.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	9	3.	5.944	16.	0.5	34.653	5.887	0.5	1.	12.	16.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	9	5.	28.167	78.	0.5	1400.375	37.422	0.5	1.5	78.	78.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	10#		0.066	0.26	0.02	0.006	0.075	0.02	0.02	0.087	0.245
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11	0.02	0.03	0.09	0.005	0.001	0.028	0.005	0.01	0.04	0.086
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11	0.71	0.725	1.12	0.38	0.052	0.229	0.404	0.56	0.92	1.094
00625p	NITROGEN, KJELDAHL, TOTAĽ, (MG/L AŠ N)	03/17/70-02/18/97	11	0.3	0.4	1.	0.2	0.072	0.268	0.2	0.2	0.5	0.96
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	11	0.1	0.132	0.4	0.05	0.014	0.119	0.05	0.05	0.2	0.38
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	11	0.04	0.066	0.16	0.01	0.003	0.058	0.012	0.02	0.14	0.158
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	9	2.7	2.467	4.5	1.2	1.46	1.208	1.2	1.3	3.4	4.5
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	9	24.	26.	32.	20.	15.	3.873	20.	24.	30.	32.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/11/88-02/18/97	8	3.	3.375	4.	3.	0.268	0.518	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	8	3.5	3.875	6.	3.	1.268	1.126	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	9 #		0.069	0.13	0.05	0.001	0.031	0.05	0.05	0.095	0.13
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	300.	1640.	8000.		164333.333	2676.627	50.	87.5	3075.	7650.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	10	2.477	2.593	3.903	1.699	0.649	0.806	1.699	1.925	3.475	3.878
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD	V =		391.338								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	12	8.9	11.233	24.	2.1	52.726	7.261	2.76	5.55	18.6	23.25
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	11	50.	48.455	70.	8.	261.273	16.164	14.4	45.	60.	69.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	12	72.	71.667	83.	50.	70.424	8.392	55.1	68.5	77.5	82.1
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	12	11.4	10.642	13.3	8.	4.114	2.028	8.03	8.5	12.275	13.15
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	2.	1.636	2.	1.	0.255	0.505	1.	1.	2.	2.
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	12	7.	8.25	18.	3.	18.568	4.309	3.	5.25	10.75	16.5
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	12	8.3	8.417	8.9	8.	0.083	0.289	8.06	8.2	8.675	8.87
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	12	8.3	8.338	8.9	8.	0.09	0.3	8.06	8.2	8.675	8.87
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	12	0.005	0.005	0.01	0.001	0.	0.003	0.001	0.002	0.006	0.009
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	12	6.8	6.767	7.2	6.4	0.07	0.264	6.4	6.45	6.975	7.14
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	12	6.8	6.693	7.2	6.4	0.076	0.275	6.4	6.45	6.975	7.14
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	12	0.158	0.203	0.398	0.063	0.016	0.126	0.074	0.106	0.361	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	12	24.	23.25	28.	19.	9.659	3.108	19.	20.	25.75	27.7
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	12	65.5	68.917	106.	50.	231.356	15.21	50.3	60.25	78.25	98.5
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	12	18.	15.958	24.	0.5	52.657	7.257	2.15	11.25	21.75	23.7
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	12	51.5	53.	94.	38.	218.	14.765	38.3	42.75	58.	83.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	7.5	12.667	43.	3.	126.788	11.26	3.6	6.	16.	37.3
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	3.5	4.083	11.	2.	7.538	2.746	2.	2.	4.	10.1

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	12	5.	8.625	32.	0.5	81.142	9.008	0.65	4.	9.75	28.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	10 ##	0.02	0.034	0.08	0.02	0.001	0.025	0.02	0.02	0.05	0.08
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11	0.71	0.691	0.94	0.48	0.023	0.151	0.494	0.55	0.81	0.936
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	03/17/70-02/18/97	11	0.3	0.309	0.4	0.2	0.007	0.083	0.2	0.2	0.4	0.4
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	11	0.1	0.1	0.2	0.05	0.002	0.039	0.05	0.1	0.1	0.18
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	11	0.04	0.043	0.07	0.02	0.	0.017	0.022	0.03	0.05	0.07
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	12	1.7	1.892	3.7	0.8	0.575	0.759	0.92	1.375	2.275	3.37
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	11	28.	27.364	34.	22.	18.455	4.296	22.2	24.	30.	34.
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	12	3.	3.083	4.	3.	0.083	0.289	3.	3.	3.	3.7
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	12	4.	4.083	6.	3.	0.811	0.9	3.	3.25	4.75	5.7
00951	FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	12 ##	0.05	0.064	0.13	0.025	0.001	0.037	0.025	0.05	0.103	0.127
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	400.	545.455	2200.	50.	398227.273	631.053	50.	100.	700.	1980.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11	2.602	2.483	3.342	1.699	0.275	0.525	1.699	2.	2.845	3.282
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	V =		303.776								

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BOWA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	30	22.	19.383	26.	6.5	37.604	6.132	7.96	13.525	24.325	25.2
00094p	SPECIFIC CONDUCTANCÈ, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	30	65.	73.	380.	30.	3523.517	59.359	42.6	51.5	74.	80.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	10	76.	107.9	427.	64.	12626.1	112.366	64.	64.	81.25	392.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	1	12.2	12.2	12.2	12.2	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	29	7.7	8.314	12.7	6.8	3.092	1.758	6.9	6.9	9.5	11.8
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	10	2.	2.8	6.	2.	1.733	1.317	2.	2.	3.25	5.8
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	10	9.	10.1	22.	8.	17.878	4.228	8.	8.	9.25	20.8
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	30	7.565	7.664	8.8	6.87	0.27	0.52	6.997	7.308	8.08	8.58
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	30	7.565	7.433	8.8	6.87	0.325	0.57	6.997	7.307	8.08	8.58
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	30	0.027	0.037	0.135	0.002	0.001	0.035	0.003	0.008	0.049	0.101
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	10	6.9	7.02	8.3	6.5	0.273	0.522	6.51	6.675	7.225	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	10	6.889	6.847	8.3	6.5	0.306	0.553	6.51	6.675	7.225	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	10	0.129	0.142	0.316	0.005	0.01	0.099	0.01	0.06	0.212	0.31
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	10	26.	39.2	178.	17.	2402.4	49.014	17.1	18.75	28.75	163.3
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	30	70.	79.833	240.	53.	1405.247	37.487	57.	61.75	78.	139.6
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	14	20.	25.714	76.	12.	256.989	16.031	14.	18.	26.	58.
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	14	50.5	66.357	164.	40.	1251.786	35.381	42.	45.5	73.25	137.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	29	12.	18.431	83.	1.5	364.424	19.09	5.	9.5	18.5	47.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	15	2.	3.	8.	1.	3.429	1.852	1.	2.	4.	6.2
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	15	10.	14.6	69.	3.	255.4	15.981	3.6	7.	16.	40.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	26	0.04	0.049	0.13	0.02	0.001	0.029	0.02	0.02	0.06	0.096
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	27 ##	0.005	0.011	0.05	0.005	0.	0.011	0.005	0.005	0.01	0.032
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	27	0.44	0.435	0.81	0.02	0.041	0.202	0.18	0.29	0.57	0.72
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	26	0.4	0.454	1.2	0.2	0.038	0.194	0.27	0.375	0.5	0.7
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	27	0.08	0.103	0.3	0.05	0.005	0.069	0.05	0.06	0.1	0.236
00671p	PHOSPHORUS, DISSOLVED ORTHÓPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	9	0.03	0.042	0.15	0.01	0.002	0.043	0.01	0.02	0.05	0.15
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	10	2.6	2.58	3.9	1.3	0.646	0.804	1.35	1.875	3.15	3.87
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	10	27.	46.1	203.	18.	3105.878	55.73	18.6	24.	39.	187.5
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	10	3.	3.8	11.	3.	6.4	2.53	3.	3.	3.	10.2
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	10	4.	6.8	36.	2.	105.956	10.293	2.1	3.	4.25	32.9
00951	FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	10 ##	0.05	0.095	0.28	0.05	0.005	0.074	0.05	0.05	0.123	0.265
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	21	600.	1645.238	8000.	50.	7404476.19	2721.117	100.	200.	1300.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	21	2.778	2.743	3.903	1.699	0.42	0.648	2.	2.301	3.092	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	=		553.159								
70507p	PHOSPHORUS,IN TOTÁL ORTHOPHOSPHATE (MG/L ÁS P)	03/17/70-02/18/97	18	0.05	0.057	0.16	0.04	0.001	0.033	0.04	0.04	0.05	0.133

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station BOWA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	38	18.85	18.316	25.4	2.1	33.747	5.809	8.86	15.325	23.	24.82
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	37	70.	65.081	86.	40.	182.132	13.496	44.	55.	78.5	80.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	20	81.	87.95	246.	70.	1425.313	37.753	70.	72.25	84.75	90.7
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	39	8.6	8.959	13.4	7.1	2.761	1.662	7.3	7.6	9.8	12.
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	2.	1.909	4.	1.	0.891	0.944	1.	1.	2.	3.8
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	10	9.5	10.7	33.	2.	86.233	9.286	2.	4.25	13.	31.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	38	7.63	7.846	9.1	7.16	0.258	0.508	7.37	7.51	8.225	8.62
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	38	7.63	7.652	9.1	7.16	0.296	0.544	7.37	7.51	8.225	8.62
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	38	0.023	0.022	0.069	0.001	0.	0.016	0.002	0.006	0.031	0.043
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	12	7.4	7.208	7.6	6.7	0.103	0.32	6.73	6.9	7.475	7.57
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	12	7.4	7.098	7.6	6.7	0.116	0.34	6.73	6.9	7.475	7.57
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	12	0.04	0.08	0.2	0.025	0.004	0.06	0.027	0.034	0.126	0.187
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	12	22.5	23.167	30.	13.	28.515	5.34	14.2	20.	27.75	30.
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	35	76.	92.171	289.	28.	2547.617	50.474	60.4	65.	98.	168.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	35	22.	23.257	55.	4.	112.55	10.609	14.	17.	27.	41.4
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	35	56.	68.914	244.	13.	1988.963	44.598	39.6	43.	75.	139.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	36	15.	30.778	178.	3.	1513.949	38.91	4.	10.25	32.	90.9
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	36	3.	4.75	28.	1.	31.393	5.603	1.	1.25	5.75	10.9
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	36	13.5	26.	150.	2.	1111.486	33.339	3.	8.25	27.	80.3
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	37 ##	0.02	0.034	0.18	0.01	0.001	0.032	0.02	0.02	0.04	0.06
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	37	0.01	0.014	0.05	0.005	0.	0.012	0.005	0.005	0.02	0.032
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	37	0.67	0.681	1.22	0.05	0.047	0.216	0.438	0.565	0.775	0.95
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	37	0.4	0.462	1.2	0.1	0.054	0.231	0.2	0.3	0.55	0.74
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	37	0.1	0.133	0.42	0.05	0.008	0.091	0.07	0.08	0.15	0.3
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	6	0.035	0.055	0.15	0.03	0.002	0.047	**	**	**	**
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	10	3.4	4.57	8.9	1.	8.929	2.988	1.01	2.075	7.85	8.81
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	11	30.	31.455	40.	26.	20.073	4.48	26.4	28.	36.	39.2
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	12	3.	5.	30.	2.	62.182	7.886	2.	2.25	3.	21.9
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	11	4.	4.182	7.	3.	1.364	1.168	3.	3.	5.	6.6
00951	FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	11##	0.05	0.12	0.25	0.015	0.009	0.094	0.022	0.05	0.25	0.25
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	36	850.	1856.944	8000.	50. 50	624164.683	2371.532	100.	300.	2625.	7300.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	36	2.929	2.915	3.903	1.699	0.361	0.601	2.	2.477	3.416	3.862
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	=		822.642								
70507p	PHOSPHORUS,IN TOTÁL ORTHOPHOSPHATE (MG/L ÁS P)	03/17/70-02/18/97	31	0.04	0.045	0.12	0.01	0.001	0.026	0.02	0.03	0.05	0.086

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Annual Analysis for 1993 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	46	21.45	19.861	26.9	1.8	44.663	6.683	7.05	17.9	25.025	26.03
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	46	70.	67.326	100.	25.	302.269	17.386	42.8	56.	79.25	89.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	13	70.	70.692	86.	49.	111.064	10.539	53.8	63.	78.5	85.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	46	8.05	8.372	13.4	5.9	3.406	1.845	6.6	7.	8.725	12.02
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	12	1.5	1.833	5.	1.	1.424	1.193	1.	1.	2.	4.4
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	12	6.	9.583	44.	2.5	130.583	11.427	2.5	4.	8.75	35.6
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	44	7.55	7.6	8.8	6.7	0.181	0.425	7.13	7.4	7.837	8.25
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	44	7.55	7.419	8.8	6.7	0.214	0.463	7.13	7.4	7.837	8.25
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	44	0.028	0.038	0.2	0.002	0.002	0.04	0.006	0.015	0.04	0.074
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	12	6.85	6.917	7.6	6.3	0.143	0.379	6.36	6.625	7.275	7.51
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	12	6.847	6.778	7.6	6.3	0.164	0.405	6.36	6.625	7.275	7.51
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	12	0.142	0.167	0.501	0.025	0.019	0.137	0.033	0.053	0.238	0.446
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	12	24.	24.333	38.	13.	56.242	7.499	13.9	18.	30.75	36.2
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	47	69.	91.915	976.	43.	18079.775	134.461	51.6	57.	81.	105.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	47	16.	20.277	148.	3.	447.639	21.157	4.8	10.	24.	32.
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	47	54.	71.426	828.	11.	13181.641	114.811	37.	44.	62.	81.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	47	17.	19.298	74.	3.	148.475	12.185	5.8	12.	23.	32.4

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Annual Analysis for 1993 - Station BOWA0014

Parameter	Ť	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	47	4.	3.851	10.	1.	2.695	1.642	2.	3.	5.	6.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	47	14.	15.447	64.	2.	114.296	10.691	3.8	9.	19.	26.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	47	0.04	0.057	0.34	0.02	0.003	0.055	0.02	0.02	0.07	0.12
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	47	0.01	0.018	0.24	0.005	0.001	0.038	0.005	0.005	0.01	0.032
00620p	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	03/17/70-02/18/97	47	0.55	0.537	0.98	0.02	0.038	0.194	0.308	0.43	0.61	0.876
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	47	0.4	0.538	3.2	0.2	0.196	0.443	0.28	0.4	0.6	0.72
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	47	0.1	0.134	1.7	0.05	0.058	0.241	0.05	0.07	0.1	0.16
00680p	CARBON, TOTAL ORGÀNIC (MG/L AS C)	07/23/79-08/27/96	12	2.15	4.383	24.4	1.2	41.282	6.425	1.29	1.75	3.475	18.82
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	12	27.	28.	42.	20.	41.455	6.439	20.6	22.5	31.5	40.2
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	12	3.	3.	4.	2.	0.182	0.426	2.3	3.	3.	3.7
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	12	3.5	3.667	5.	2.	0.97	0.985	2.3	3.	4.75	5.
00951	FLUORIDE, TOTAL (MG/L AS F)	01/11/89-04/21/93	3 ##	0.05	0.117	0.25	0.05	0.013	0.115	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	43	300.	1365.116	8000.	50. 4	792563.677	2189.192	70.	200.	1600.	5220.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	43	2.477	2.673	3.903	1.699	0.412	0.642	1.819	2.301	3.204	3.712
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		470.667								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	47	0.04	0.049	0.24	0.01	0.001	0.035	0.02	0.03	0.06	0.08

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	33	19.8	18.967	27.4	4.6	32.288	5.682	10.2	15.1	23.75	25.56
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @) 25C)	07/23/79-03/18/97	32	68.	66.313	101.	34.	310.931	17.633	42.9	51.25	80.5	90.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	19	77.	76.211	86.	63.	42.953	6.554	65.	73.	82.	86.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	32	8.	8.438	12.6	6.4	2.7	1.643	6.73	7.1	9.075	11.51
00310p	BOD. 5 DAY. 20 DEG C MG/L	03/17/70-02/18/97	11	1.3	1.518	4.	0.5	0.832	0.912	0.6	1.	1.6	3.6
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	8.	8.545	15.	6.	6.473	2.544	6.2	7.	9.	14.2
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	33	7.83	7.945	9.3	6.98	0.379	0.615	7.038	7.52	8.25	8.966
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	33	7.83	7.614	9.3	6.98	0.491	0.701	7.038	7.52	8.25	8.966
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	33	0.015	0.024	0.105	0.001	0.001	0.03	0.001	0.006	0.03	0.092
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	11	6.7	6.627	6.9	6.2	0.048	0.22	6.24	6.4	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	11	6.7	6.573	6.9	6.2	0.051	0.227	6.24	6.4	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	11	0.2	0.267	0.631	0.126	0.023	0.153	0.126	0.158	0.398	0.584
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	11	25.	24.545	29.	17.	17.073	4.132	17.2	22.	28.	28.8
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	33	69.	73.727	142.	50.	379.08	19.47	52.8	58.5	83.	100.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	33	21.	22.121	54.	8.	65.172	8.073	13.8	16.5	27.	30.
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	33	48.	51.606	88.	28.	218.059	14.767	33.	40.5	64.	72.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	34	12.	21.515	246.	1.5	1635.159	40.437	5.	9.	21.25	29.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	34	2.5	4.103	36.	1.	34.648	5.886	1.5	2.	4.25	6.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	34	9.5	17.471	210.	1.5	1197.332	34.602	4.	7.	16.25	23.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	34 ##		0.042	0.16	0.02	0.001	0.034	0.02	0.02	0.05	0.1
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	34	0.01	0.016	0.09	0.005	0.	0.018	0.005	0.005	0.02	0.04
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	34	0.505	0.5	0.85	0.02	0.032	0.179	0.22	0.458	0.62	0.71
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	34	0.4	0.462	1.2	0.2	0.064	0.253	0.2	0.3	0.6	0.85
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	34	0.07	0.089	0.42	0.03	0.005	0.068	0.045	0.05	0.1	0.135
00680p	CARBON, TOTAL ORGÁNIC (MG/L AS C)	07/23/79-08/27/96	11	2.2	2.509	4.5	1.6	1.181	1.087	1.6	1.7	3.7	4.44
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	11	26.	25.	30.	20.	10.6	3.256	20.2	22.	27.	29.8
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	11	3.	3.455	4.	3.	0.273	0.522	3.	3.	4.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	11	4.	3.455	5.	2.	0.873	0.934	2.	3.	4.	4.8
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	34	500.	1347.059	8000.	50. 5	105900.178	2259.624	50.	175.	1175.	5900.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	34	2.699	2.663	3.903	1.699	0.426	0.653	1.699	2.226	3.068	3.741
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN			459.778								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	34	0.03	0.038	0.17	0.01	0.001	0.028	0.015	0.02	0.04	0.065

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BOWA0014

Paramete	Ť	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	38	19.8	18.4	26.4	2.1	34.444	5.869	9.	14.875	22.7	24.75
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	38	71.	67.316	90.	28.	253.952	15.936	44.5	54.5	80.	85.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	02/14/89-02/18/97	35	81.	81.	99.	67.	67.529	8.218	69.6	74.	87.	92.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	38	8.	8.626	14.3	6.3	3.136	1.771	6.69	7.6	9.425	11.53
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	8	1.05	1.575	2.8	0.5	0.856	0.925	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	10	6.	8.25	29.	2.5	62.347	7.896	2.5	2.5	9.5	27.2
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	38	7.44	7.564	8.61	6.92	0.205	0.453	7.009	7.248	7.893	8.259
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	38	7.439	7.392	8.61	6.92	0.236	0.486	7.009	7.247	7.892	8.259
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	38	0.036	0.041	0.12	0.002	0.001	0.031	0.006	0.013	0.057	0.098
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	10	6.8	6.82	7.1	6.5	0.033	0.181	6.52	6.7	6.95	7.1
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	10	6.8	6.787	7.1	6.5	0.034	0.185	6.52	6.7	6.95	7.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	10	0.158	0.163	0.316	0.079	0.005	0.068	0.079	0.114	0.2	0.305
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	10	24.	24.5	31.	15.	25.167	5.017	15.5	21.5	30.	30.9
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	35	77.	103.8	760.	51.	14077.165	118.647	53.	65.	95.	155.6
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	35	18.	21.857	100.	2.5	301.405	17.361	6.	11.	27.	38.8
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	35	60.	82.086	660.	31.	10771.198	103.784	42.6	50.	76.	118.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	35	22.	51.943	857.	3.	20551.644	143.358	7.	11.	35.	82.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	35	4.	7.314	98.	1.5	267.957	16.369	1.5	1.5	6.	13.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	35	18.	44.529	759.	1.5	16142.455	127.053	5.	8.	29.	69.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	34	0.05	0.058	0.21	0.02	0.002	0.046	0.02	0.02	0.065	0.14
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	34	0.02	0.025	0.1	0.005	0.001	0.024	0.005	0.005	0.033	0.065
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	34	0.51	0.562	0.99	0.14	0.047	0.218	0.275	0.445	0.7	0.915
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŠ N)	03/17/70-02/18/97	34	0.4	0.482	2.2	0.1	0.147	0.383	0.15	0.3	0.5	0.95
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	34	0.1	0.162	1.2	0.04	0.043	0.206	0.05	0.06	0.155	0.34
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	10	2.85	3.85	12.5	1.5	9.714	3.117	1.59	2.625	3.7	11.65
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	10	29.	27.7	42.	20.	45.567	6.75	20.1	21.	30.5	41.
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	10	3.5	4.1	8.	3.	2.544	1.595	3.	3.	5.	7.7
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	10	3.5	4.	6.	3.	1.333	1.155	3.	3.	5.	5.9
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	36	900.	2456.944	8000.	50. 8	339450.397	2887.811	85.	400.	4125.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	36	2.954	2.976	3.903	1.699	0.493	0.702	1.91	2.602	3.614	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAD			946.358								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	34	0.05	0.085	0.65	0.02	0.013	0.115	0.02	0.04	0.08	0.18

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Annual Analysis for 1996 - Station BOWA0014

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	11	13.8	14.973	23.3	3.9	44.83	6.696	4.84	8.9	21.1	23.16
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	07/23/79-03/18/97	10	61.	60.7	82.	40.	206.9	14.384	40.5	45.	72.5	81.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	02/14/89-02/18/97	11	75.	74.182	84.	66.	44.164	6.646	66.2	67.	80.	83.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	11	10.	10.327	13.8	7.9	4.108	2.027	7.92	8.3	11.9	13.44
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	11	1.	0.955	2.	0.5	0.323	0.568	0.5	0.5	1.	2.
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	11	6.	5.909	12.	2.5	10.591	3.254	2.5	2.5	9.	11.4
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	11	8.34	8.317	8.7	7.82	0.063	0.251	7.862	8.16	8.53	8.668
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	11	8.34	8.247	8.7	7.82	0.069	0.262	7.862	8.16	8.53	8.668
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	11	0.005	0.006	0.015	0.002	0.	0.004	0.002	0.003	0.007	0.014
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	11	7.1	7.118	7.5	6.9	0.036	0.189	6.9	6.9	7.2	7.46
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	11	7.1	7.084	7.5	6.9	0.037	0.192	6.9	6.9	7.2	7.46
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	11	0.079	0.083	0.126	0.032	0.001	0.033	0.035	0.063	0.126	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	11	23.	23.182	29.	16.	23.764	4.875	16.2	19.	28.	28.8
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	11	67.	66.727	92.	40.	237.618	15.415	42.	54.	76.	90.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	11	17.	19.273	36.	6.	83.418	9.133	6.8	12.	28.	35.
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	11	48.	47.455	68.	23.	204.073	14.285	23.6	38.	61.	66.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	9.	9.818	29.	1.5	60.114	7.753	1.5	5.	13.	26.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	11 ##	1.5	1.955	5.	1.5	1.223	1.106	1.5	1.5	1.5	4.6
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	11	7.	8.182	24.	1.5	40.514	6.365	1.5	4.	11.	21.8

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BOWA0014

Paramete	r e e e e e e e e e e e e e e e e e e e	Period of Record	Obs 1	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	11##	0.02	0.027	0.08	0.02	0.	0.018	0.02	0.02	0.02	0.072
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11##	0.005	0.008	0.02	0.005	0.	0.006	0.005	0.005	0.01	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	11	0.52	0.574	0.92	0.33	0.038	0.195	0.34	0.43	0.68	0.914
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	11	0.3	0.273	0.5	0.1	0.012	0.11	0.12	0.2	0.3	0.48
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	11##	0.05	0.064	0.2	0.05	0.002	0.045	0.05	0.05	0.05	0.17
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	7	2.3	2.486	3.8	1.5	0.745	0.863	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	11	26.	25.545	30.	20.	9.673	3.11	20.2	24.	28.	29.6
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	11 ##	2.5	2.682	4.	2.5	0.214	0.462	2.5	2.5	2.5	3.8
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	11##	2.5	2.864	5.	2.5	0.705	0.839	2.5	2.5	2.5	4.8
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11 ##	50.	309.091	2200.	50.	407409.091	638.286	50.	50.	300.	1840.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	11##	1.699	2.056	3.342	1.699	0.29	0.539	1.699	1.699	2.477	3.194
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN	1 =		113.749								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	11	0.03	0.035	0.06	0.02	0.	0.015	0.02	0.02	0.05	0.058

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

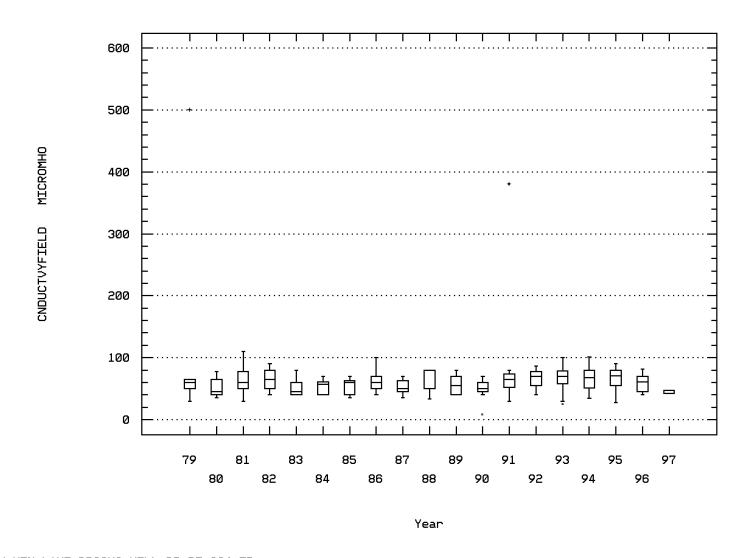
Annual Analysis for 1997 - Station BOWA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	3	6.8	7.3	9.2	5.9	2.91	1.706	**	**	**	**
00094p	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	3	42.	43.667	47.	42.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	2	66.5	66.5	67.	66.	0.5	0.707	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	12/09/91-03/18/97	3	12.2	11.933	12.4	11.2	0.413	0.643	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
00400p	PH (ŚTANDARD UNITS)	03/17/70-03/18/97	3	8.29	8.127	8.37	7.72	0.126	0.354	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	3	8.29	8.023	8.37	7.72	0.142	0.376	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	3	0.005	0.009	0.019	0.004	0.	0.008	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	2	7.1	7.1	7.2	7.	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	2	7.089	7.089	7.2	7.	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	2	0.082	0.082	0.1	0.063	0.001	0.026	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	2	18.	18.	19.	17.	2.	1.414	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	2	57.5	57.5	62.	53.	40.5	6.364	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	2	12.5	12.5	13.	12.	0.5	0.707	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	2	45.	45.	49.	41.	32.	5.657	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	2	9.	9.	12.	6.	18.	4.243	**	**	**	**
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00610p	NITROGÉN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	2	0.775	0.775	0.81	0.74	0.002	0.049	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AŚ N)	03/17/70-02/18/97	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	2	22.5	22.5	23.	22.	0.5	0.707	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	2	5	5.	5.	5	0.	0.	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	3 ##	50.	66.667	100.	50.	833.333	28.868	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	3 ##	1.699	1.799	2.	1.699	0.03	0.174	**	**	**	**
31616p	GM FECAL COLIFORM.MEMBR FILTER.M-FC BROTH.44.5 C	GEOMETRIC MEAN =		,	62.996			.,,,,					
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**

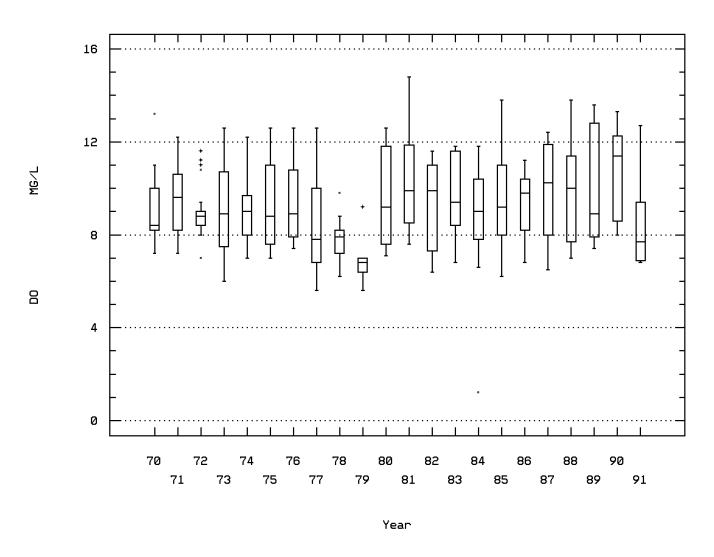
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BOWA0014 Parameter Code: 00094

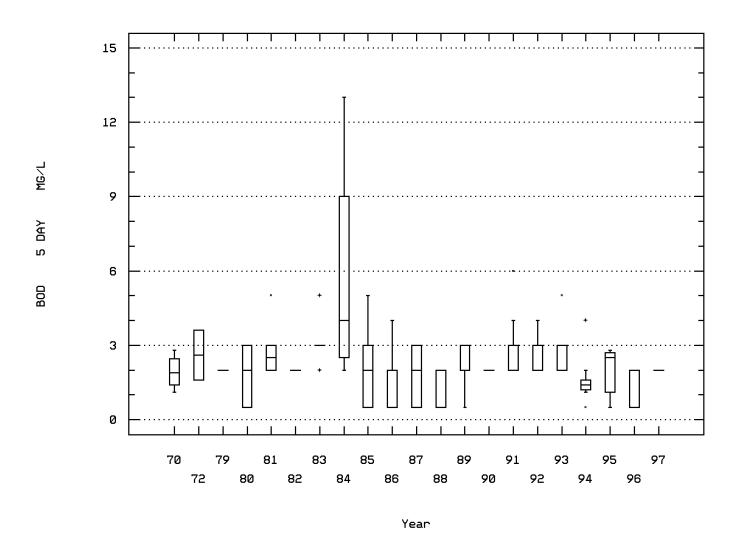
SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @



Station: BOWA0014 Parameter Code: 00300
OXYGEN, DISSOLVED

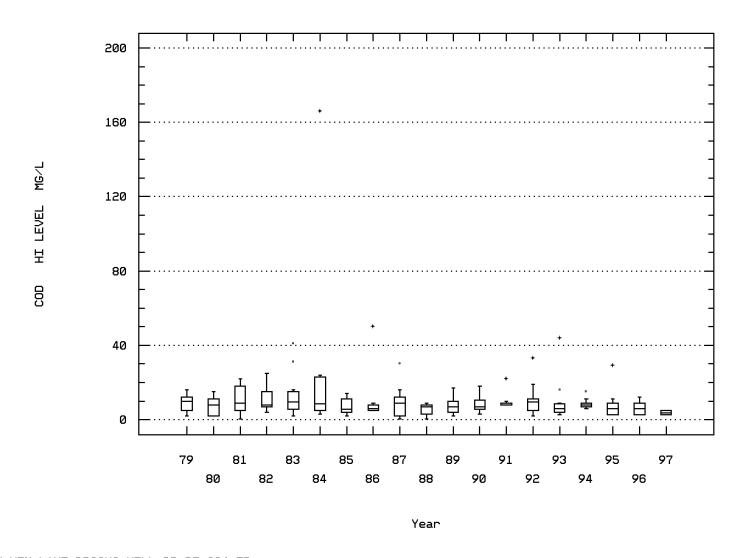


Station: BOWA0014 Parameter Code: 00310 BOD, 5 DAY, 20 DEG C

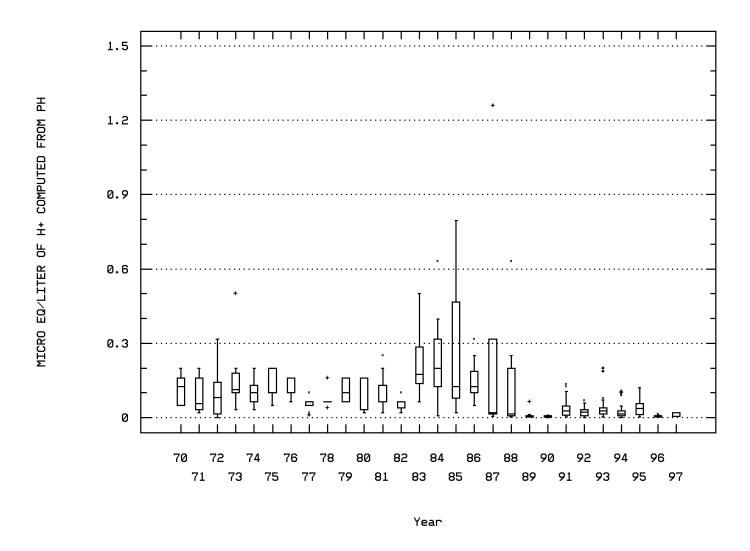


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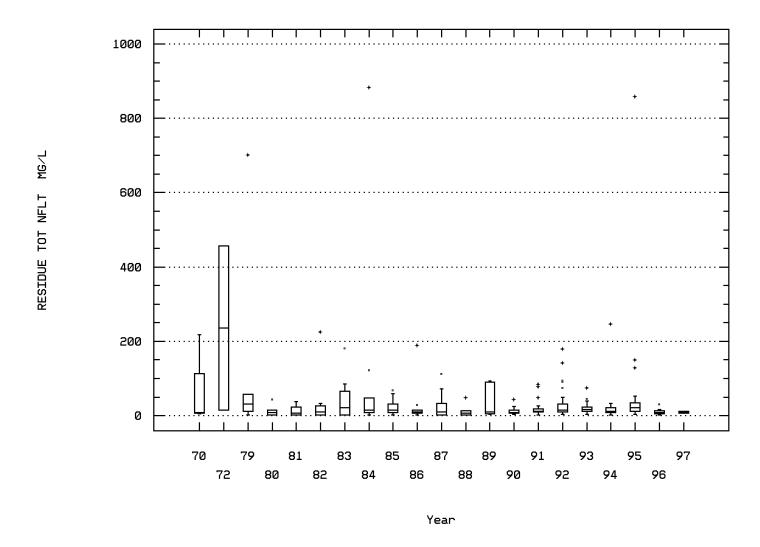
Station: BOWA0014 Parameter Code: 00340 COD, .25N K2CR207



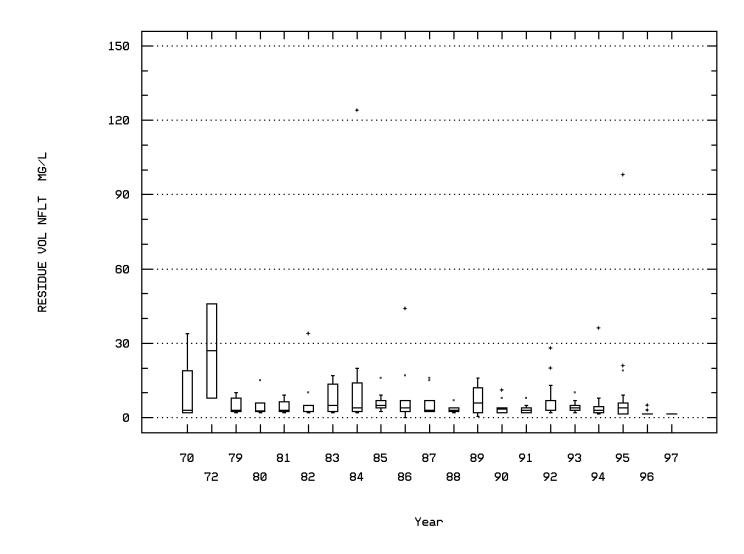
Station: BOWA0014 Parameter Code: 00400 MICRO EQ/LITER OF H+ COMPUTED FROM PH



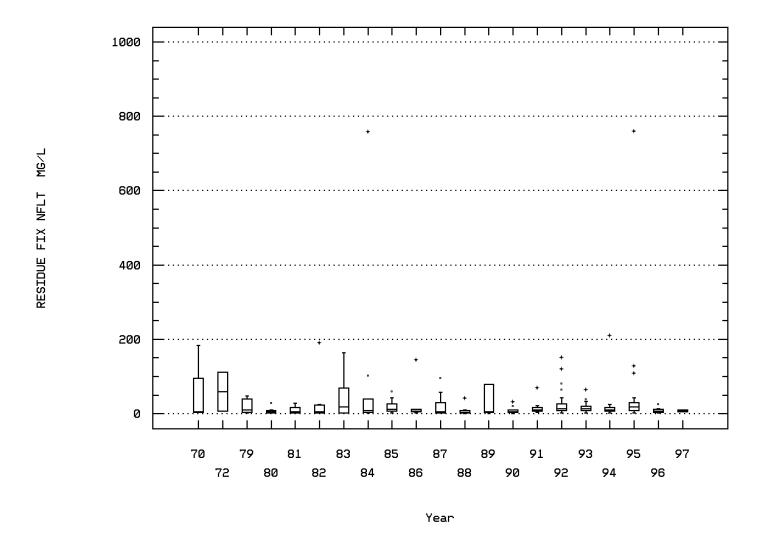
Station: BOWA0014 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)



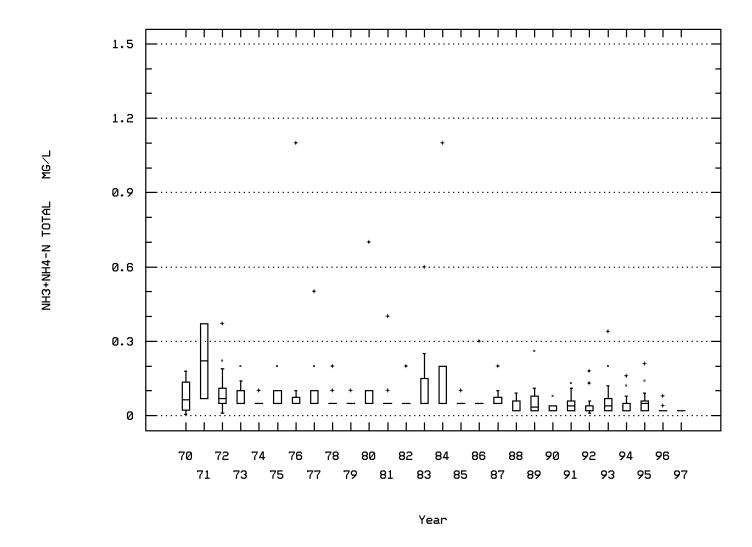
Station: BOWA0014 Parameter Code: 00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)



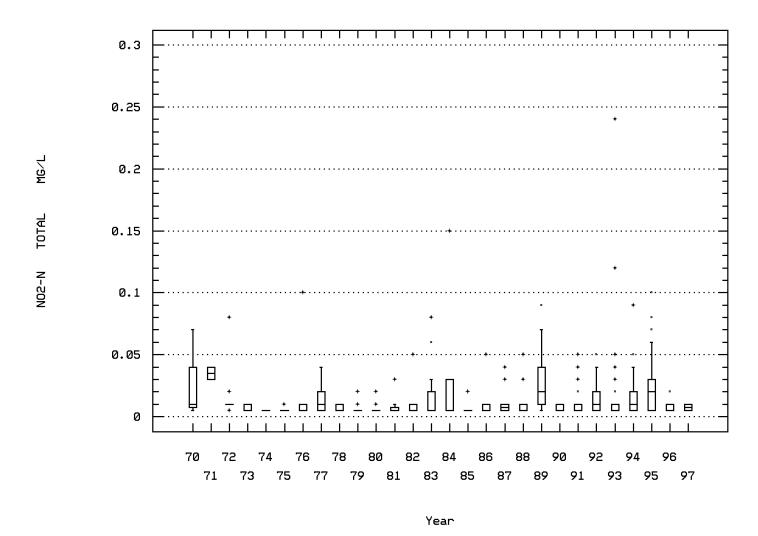
Station: BOWA0014 Parameter Code: 00540 RESIDUE, FIXED NONFILTRABLE (MG/L)



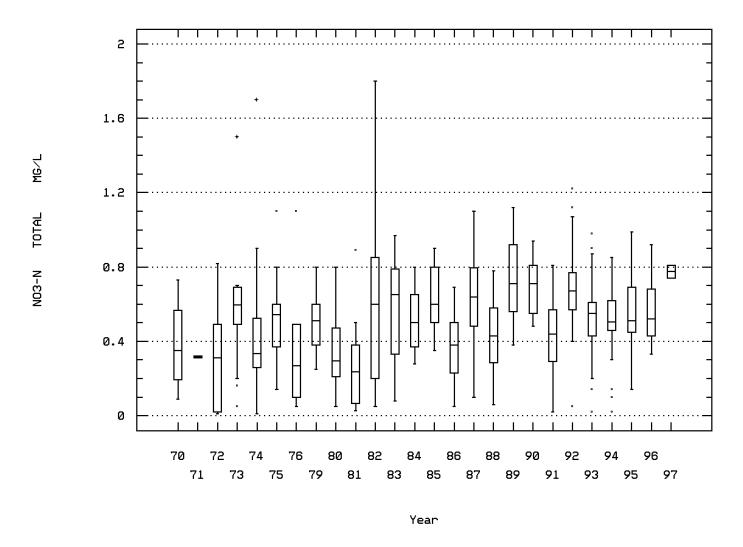
Station: BOWA0014 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



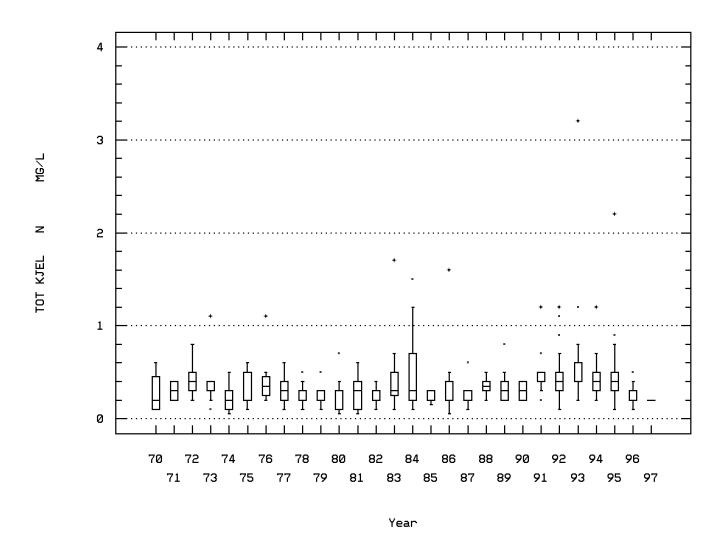
Station: BOWA0014 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



Station: BOWA0014 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)

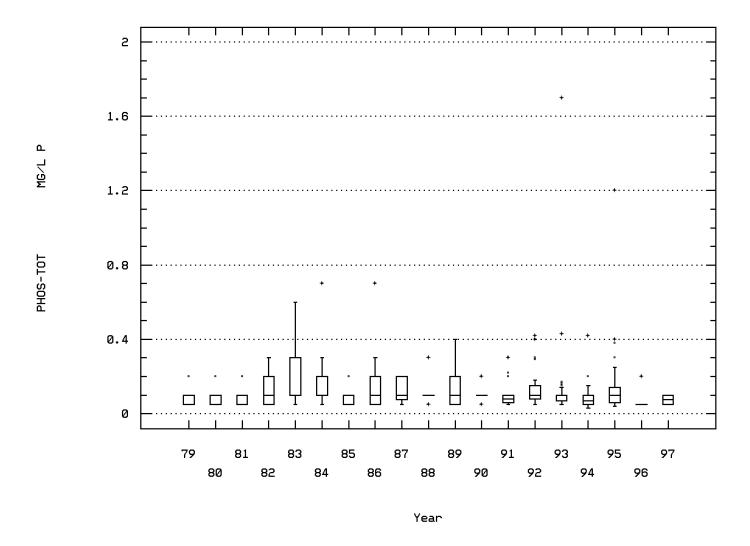


Station: BOWA0014 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)

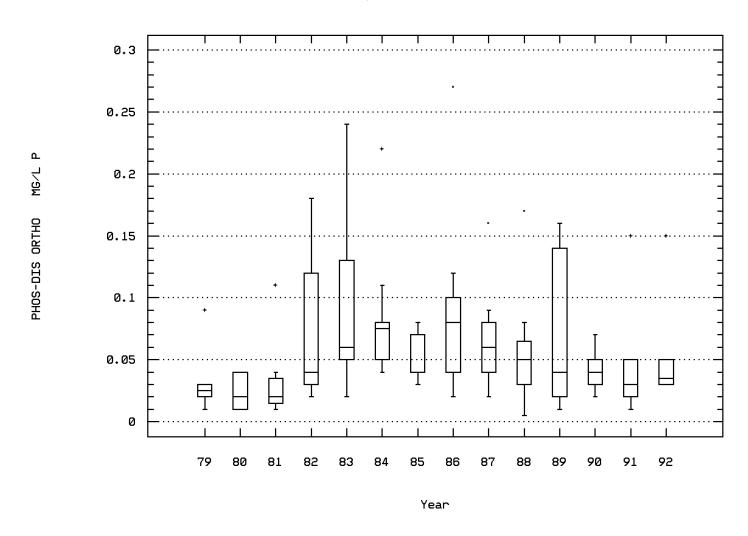


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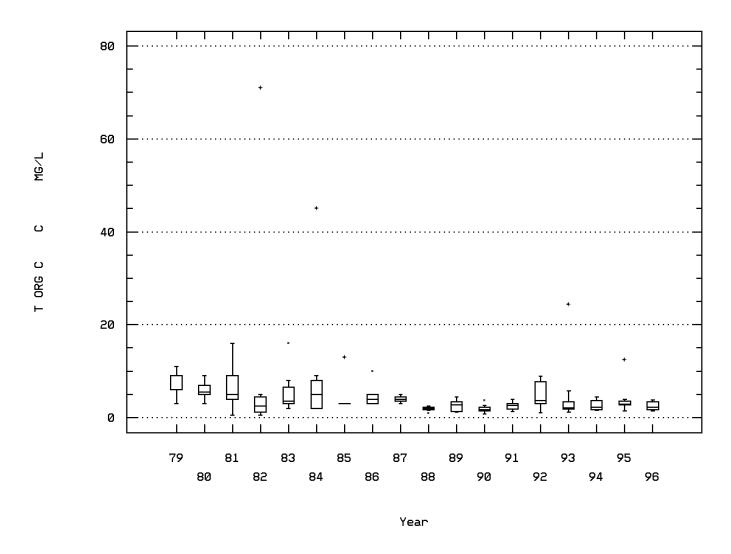
Station: BOWA0014 Parameter Code: 00665 PHOSPHORUS, TOTAL (MG/L AS P)



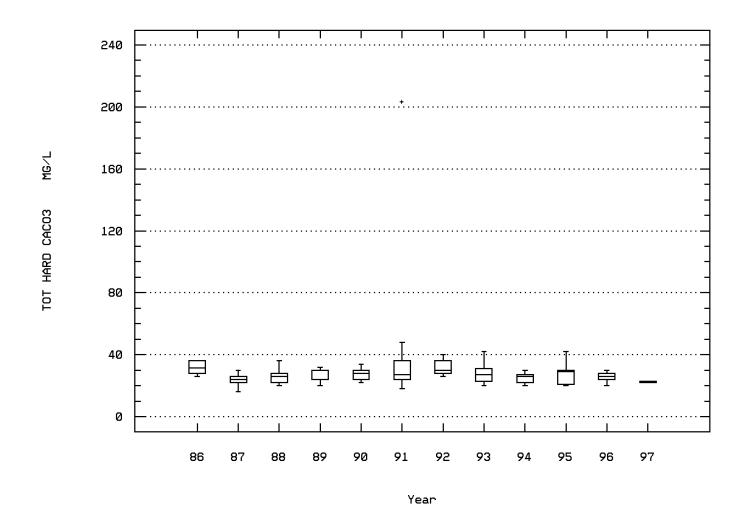
Station: BOWA0014 Parameter Code: 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



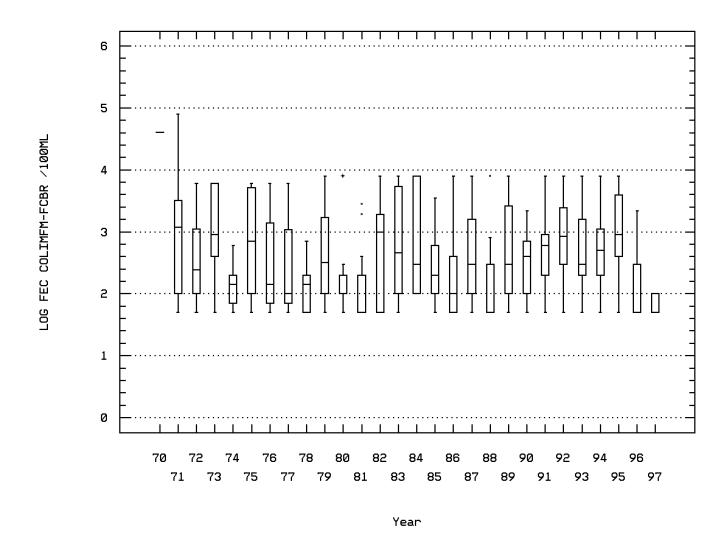
Station: BOWA0014 Parameter Code: 00680 CARBON, TOTAL ORGANIC (MG/L AS C)



Station: BOWA0014 Parameter Code: 00900 HARDNESS, TOTAL (MG/L AS CACO3)

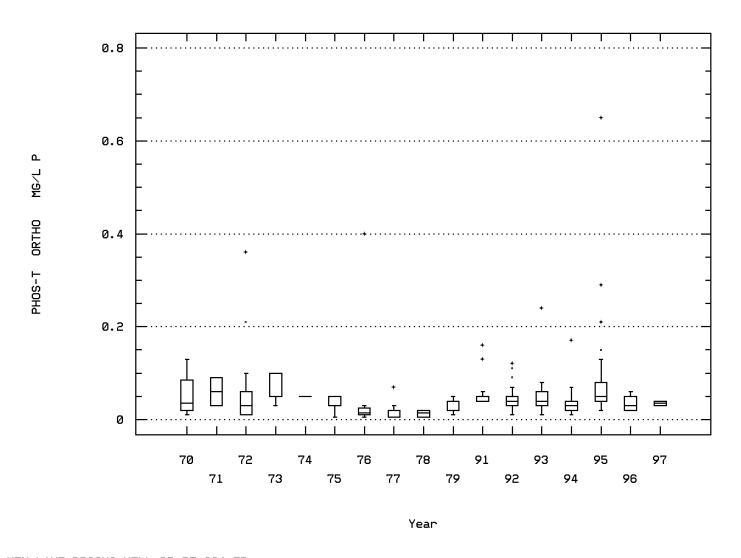


Station: BOWA0014 Parameter Code: 31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



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Station: BOWA0014 Parameter Code: 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/



Seasonal Analysis for Season #1: 8/01 to 10/14 - Station BOWA0014

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	102	21.8	20.656	27.8	2.1	27.283	5.223	15.32	18.9	24.1	25.6
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	04/05/71-06/25/92	8	15.5	28.388	93.	3.4	991.218	31.484	**	**	**	**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	72	75.	77.875	380.	40.	1430.477	37.822	60.	69.	80.	89.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	31	85.	94.871	427.	73.	3824.516	61.843	77.2	80.	87.	93.4
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	66	7.9	8.058	11.6	6.2	1.475	1.214	6.74	7.	8.8	9.92
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	40	1.	1.618	13.	0.5	4.283	2.069	0.5	1.	2.	2.
00340	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	41	8.	8.171	24.	0.5	20.22	4.497	2.1	5.	10.	13.8
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	101	7.39	7.455	9.2	6.2	0.308	0.555	6.814	7.	7.715	8.216
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	101	7.39	7.185	9.2	6.2	0.382	0.618	6.814	7.	7.715	8.216
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	101	0.041	0.065	0.631	0.001	0.007	0.081	0.006	0.019	0.1	0.154
00403p	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	22	7.1	7.095	8.3	6.2	0.193	0.439	6.56	6.7	7.4	7.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	22	7.1	6.902	8.3	6.2	0.232	0.482	6.56	6.7	7.4	7.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	22	0.079	0.125	0.631	0.005	0.019	0.137	0.032	0.04	0.2	0.281
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	22	28.5	37.545	178.	19.	1044.545	32.319	25.	27.75	32.5	53.7
00500p	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	53	76.	84.623	240.	54.	982.124	31.339	62.	68.	90.	114.2
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	47	21.	23.915	76.	6.	190.253	13.793	10.8	15.	29.	36.6
00510p	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	47	60.	63.489	164.	25.	504.255	22.456	44.6	52.	71.	94.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	73	15.	18.582	90.	2.5	192.986	13.892	7.	11.	22.	32.6
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	65	4.	4.292	17.	1.	10.28	3.206	1.5	2.	5.	8.8
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	67	13.	14.948	78.	2.5	142.736	11.947	5.	9.	17.	27.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	92 #		0.054	0.37	0.01	0.002	0.045	0.02	0.02	0.05	0.1
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	93 #		0.009	0.04	0.005	0.	0.006	0.005	0.005	0.01	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	88	0.435	0.417	1.12	0.01	0.049	0.221	0.08	0.283	0.55	0.653
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	93	0.3	0.361	1.2	0.1	0.025	0.159	0.2	0.3	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	69	0.1	0.107	0.4	0.05	0.004	0.065	0.05	0.08	0.1	0.17
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	28	0.05	0.056	0.14	0.01	0.001	0.033	0.019	0.03	0.078	0.102
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	39	3.4	4.323	13.	1.9	6.493	2.548	2.	2.7	5.	8.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	25	32. 3.	38.56	203.	24.	1197.257	34.601	26.	28.	36.	42.
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	17		3.588	11.	2.5	3.851	1.962	2.5	3.	3.5	5.4
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	16	3.	5.375	36.	2.5	67.417	8.211	2.5	3.	4.	15.
01002p	ARSENIC, TOTAL (UG/L AS AS)	04/05/71-07/28/92	9 #		3.056	6.	0.5	4.84	2.2	0.5	0.75	5.	6.
01027p	CADMIUM, TOTAL (UG/L AS CD)	11/02/70-07/28/92	13 #		2.692	5.	0.5	4.231	2.057	0.5	0.5	5.	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/17/70-07/28/92	14 #		5.071	10.	0.5	6.956	2.637	0.5	5.	5.	10.
01042p	COPPER, TOTAL (UG/L AS CU)	03/17/70-07/28/92	14 #		6.429	10.	5.	5.495	2.344	5.	5.	10.	10.
01051p	LEAD, TOTAL (UG/L AS PB)	11/02/70-07/28/92	14 #		4.446	10.	0.25	5.329	2.308	0.625	3.5	5.	7.5
01092p	ZINC, TOTAL (UG/L AS ZN)	03/17/70-07/28/92	14	10.	17.857	60.	5.	283.516	16.838	5.	5.	30.	50.
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	96	300.	975.521	8000.		3294736.568	1815.141	50.	100.	800.	2730.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	96	2.477	2.52	3.903	1.699	0.388	0.623	1.699	2.	2.903	3.436
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN			331.161								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	24 #		0.069	0.2	0.05	0.002	0.044	0.05	0.05	0.05	0.15
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	65	0.04	0.043	0.1	0.005	0.	0.022	0.01	0.03	0.05	0.07
71900p	MERCURY, TOTAL (UG/L AS HG)	09/14/70-06/25/92	14#	# 0.25	0.279	1.	0.15	0.052	0.228	0.15	0.15	0.25	0.75

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0014

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	166	8.65	9.011	27.8	0.	23.176	4.814	2.97	5.15	13.125	15.
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	04/05/71-06/25/92	21	7.6	19.505	160.	1.	1341.228	36.623	1.3	3.85	14.15	71.6
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/23/79-03/18/97	115	47.	46.809	69.	25.	82.524	9.084	35.	40.	50.	60.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	02/14/89-02/18/97	54	71.	71.333	99.	49.	70.868	8.418	63.	66.75	75.25	81.5
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	122	10.9	10.651	14.8	1.2	3.611	1.9	8.8	9.6	11.8	12.67
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	105	1.7	1.795	5.	0.5	1.236	1.112	1.	1.	2.	3.
00340	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	102	7.	10.324	166.	0.5	318.493	17.846	2.	3.	10.	19.4
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	167	7.2	7.407	9.3	5.9	0.602	0.776	6.58	6.8	8.2	8.6
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	167	7.2	6.94	9.3	5.9	0.822	0.906	6.58	6.8	8.2	8.6

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/15 to 4/30 - Station BOWA0014

Paramete	T.	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	167	0.063	0.115	1.259	0.001	0.025	0.159	0.003	0.006	0.158	0.264
00403p	PH, LAB, STANDARD UNITS SU	03/17/70-02/18/97	61	6.9	6.902	7.6	6.3	0.093	0.305	6.5	6.7	7.1	7.38
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	61	6.9	6.805	7.6	6.3	0.103	0.321	6.5	6.7	7.1	7.38
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	61	0.126	0.157	0.501	0.025	0.011	0.106	0.042	0.079	0.2	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	61	21.	22.131	32.	13.	23.583	4.856	16.2	18.	26.	29.8
00500p	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	70	60.	78.914	976.	28.	12515.993	111.875	50.	53.75	67.75	87.3
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	67	18.	21.09	148.	4.	346.962	18.627	7.8	12.	23.	32.8
00510p	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	68	44.	57.993	828.	2.5	9478.287	97.356	26.	39.	51.	67.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	123	7.	23.354	882.	1.	7064.089	84.048	2.5	3.	13.	32.6
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	120	2.5	4.988	124.	0.	148.952	12.205	1.	1.5	4.	7.
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	119	5.	19.441	758.	0.5	5374.187	73.309	2.	2.5	10.	28.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	151##		0.076	1.1	0.02	0.016	0.127	0.02	0.02	0.05	0.108
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	153 ##		0.013	0.24	0.005	0.001	0.025	0.005	0.005	0.01	0.03
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	139	0.6	0.581	1.8	0.01	0.104	0.322	0.14	0.37	0.79	0.92
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	152	0.2	0.332	3.2	0.05	0.114	0.338	0.1	0.2	0.4	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	118	0.05	0.119	1.7	0.03	0.035	0.186	0.05	0.05	0.1	0.2
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	75	0.04	0.054	0.27	0.005	0.003	0.051	0.02	0.02	0.07	0.124
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	95	2.7	3.855	45.	0.5	30.168	5.493	1.	1.5	4.	6.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	62	24.	25.435	48.	16.	24.938	4.994	20.3	22.	28.	30.
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	52	3.	3.769	30.	2.	14.74	3.839	2.5	3.	3.	4.7
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	51	4.	3.961	7.	2.	1.218	1.104	2.5	3.	5.	5.
01002p	ARSENIC, TOTAL (UG/L AS AS)	04/05/71-07/28/92	10 ##		3.5	25.	0.5	57.722	7.598	0.5	0.5	2.5	22.75
01027p	CADMIUM, TOTAL (UG/L AS CD)	11/02/70-07/28/92	12 ##		3.792	5.	0.5	3.566	1.888	0.5	1.875	5.	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/17/70-07/28/92	19 ##		7.579	30.	0.5	67.563	8.22	1.	5.	5.	30.
01042p	COPPER, TOTAL (UG/L AS CU)	03/17/70-07/28/92	19 ##		6.711	20.	2.5	15.314	3.913	5.	5.	10.	10.
01051p	LEAD, TOTAL (UG/L AS PB)	11/02/70-07/28/92	17 ##		8.088	40.	0.5	86.82	9.318	0.9	5.	8.5	24.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/17/70-07/28/92	18 ##		13.889	60.	5.	245.752	15.676	5.	5.	15.	42.
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	159	200.	1488.365	40000.		464215.031	3803.185	50.	100.	900.	6000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	159	2.301	2.497	4.602	1.699	0.539	0.734	1.699	2.	2.954	3.778
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEA	N =		313.848								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	34 ##		0.066	0.2	0.05	0.002	0.044	0.05	0.05	0.05	0.15
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	75	0.03	0.036	0.21	0.005	0.001	0.027	0.01	0.02	0.05	0.05
71900p	MERCURY, TOTAL (UG/L AS HG)	09/14/70-06/25/92	17 ##	0.25	0.229	0.5	0.15	0.007	0.085	0.15	0.15	0.25	0.3

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0014

ъ.		D : 1 CD 1	01	3.6.15				**	G. I. D	10.1	0.54	75.1	00.1
Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/17/70-03/18/97	170	21.95	21.522	30.6	9.	12.936	3.597	17.02	19.075	24.4	25.6
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	04/05/71-06/25/92	11	26.	50.564	150.	10.3	2954.931	54.359	10.34	13.9	94.	150.
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	07/23/79-03/18/97	131	70.	71.542	500.	8.	1628.881	40.359	50.	60.	79.	88.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/14/89-02/18/97	43	77.	81.372	246.	66.	696.287	26.387	69.4	72.	82.	86.6
00300p	OXYGEN, DISSOLVED MG/L	03/17/70-12/11/91	82	7.95	7.921	10.2	5.6	0.98	0.99	6.8	7.075	8.6	9.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/17/70-02/18/97	51	1.6	1.667	4.	0.5	0.631	0.795	1.	1.	2.	2.96
00340	COD, .25N K2CR2O7 MG/L	07/23/79-02/18/97	47	7.	9.426	30.	1.	41.424	6.436	2.	6.	12.	18.2
00400p	PH (STANDARD UNITS)	03/17/70-03/18/97	169	7.46	7.489	9.3	6.2	0.273	0.523	6.9	7.155	7.715	8.2
00400p	CONVERTED PH (STANDARD UNITS)	03/17/70-03/18/97	169	7.46	7.246	9.3	6.2	0.332	0.577	6.9	7.155	7.715	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-03/18/97	169	0.035	0.057	0.631	0.001	0.004	0.067	0.006	0.019	0.07	0.126
00403p	PH, LAB, ŜTANDARD UNITS SU	03/17/70-02/18/97	26	6.9	7.008	7.6	6.4	0.067	0.259	6.77	6.875	7.125	7.43
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/70-02/18/97	26	6.9	6.937	7.6	6.4	0.072	0.269	6.77	6.875	7.125	7.43
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/70-02/18/97	26	0.126	0.116	0.398	0.025	0.005	0.073	0.037	0.075	0.134	0.171
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/70-02/18/97	24	23.5	24.417	30.	19.	8.601	2.933	21.	22.	27.	28.5
00500p	RESIDUE, TOTAL (MG/L)	03/17/70-02/18/97	105	77.	102.029	760.	50.	7952.105	89.175	55.6	66.	94.5	179.2
00505p	RESIDUE, TOTAL VOLATILE (MG/L)	03/17/70-02/18/97	98	21.	26.454	300.	0.5	1027.15	32.049	5.	16.	28.5	40.2
00510p	RESIDUE, TOTAL FIXED (MG/L)	03/17/70-02/18/97	98	58.	77.112	660.	0.	6056.327	77.822	39.	47.75	73.25	134.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/17/70-02/18/97	131	18.	47.229	857.	2.5	11498.586	107.231	8.	12.	36.	90.

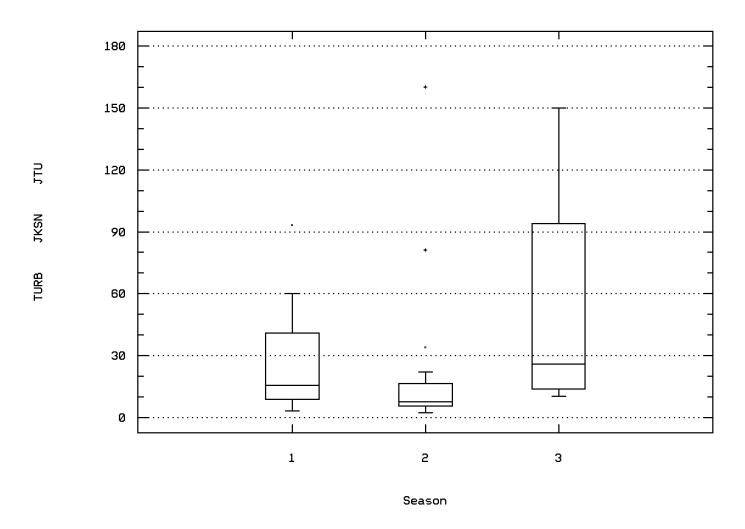
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 7/31 - Station BOWA0014

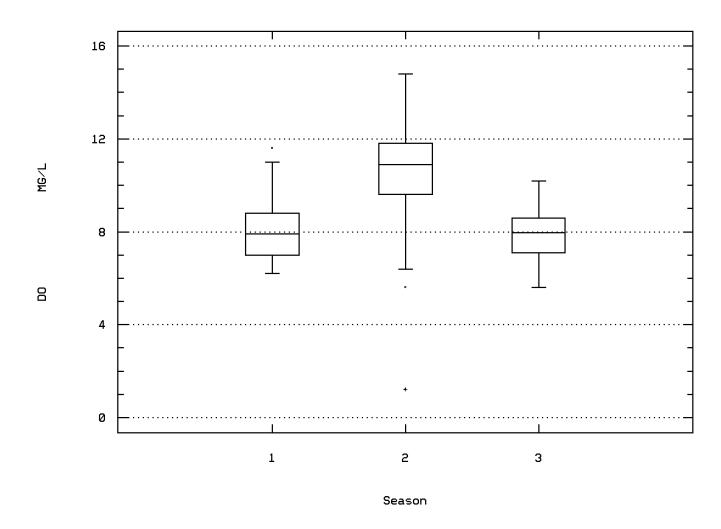
	Seusoi	Cuson /		1 00 7701	Station B		•						
Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/17/70-02/18/97	126	4.	6.774	98.	1.	115.95	10.768	2.	2.5	7.	13.6
00540p	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/17/70-02/18/97	126	14.5	33.111	759.	2.	5569.436	74.629	4.7	9.	27.25	78.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/70-02/18/97	162	0.05	0.072	1.099	0.005	0.01	0.098	0.02	0.04	0.08	0.14
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	163	0.01	0.019	0.12	0.005	0.	0.022	0.005	0.005	0.02	0.05
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/17/70-02/18/97	156	0.53	0.536	1.099	0.02	0.043	0.208	0.257	0.45	0.668	0.8
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/17/70-02/18/97	160	0.4	0.483	2.2	0.1	0.082	0.286	0.2	0.3	0.6	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/79-02/18/97	130	0.1	0.135	1.2	0.04	0.016	0.127	0.05	0.078	0.15	0.299
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/23/79-06/25/92	37	0.05	0.067	0.23	0.01	0.003	0.055	0.01	0.03	0.085	0.162
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/23/79-08/27/96	47	3.	5.498	71.	1.	101.565	10.078	1.68	2.2	6.	8.92
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/86-02/18/97	27	28.	26.889	40.	20.	17.641	4.2	21.6	24.	30.	30.4
00940	CHLORIDE, TOTAL IN WATER MG/L	10/11/88-02/18/97	21	3.	3.071	4.	2.	0.282	0.531	2.5	3.	3.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	11/02/88-02/18/97	21	3.	3.452	5.	2.	0.773	0.879	2.5	3.	4.	5.
01002p	ARSENIC, TOTAL (UG/L AS AS)	04/05/71-07/28/92	11 ##		2.682	8.	0.5	5.714	2.39	0.5	1.	5.	7.4
01027p	CADMIUM, TOTAL (UG/L AS CD)	11/02/70-07/28/92	11 ##		4.182	5.	0.5	3.314	1.82	0.5	5.	5.	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/17/70-07/28/92	13 ##		4.692	10.	0.5	5.356	2.314	0.5	5.	5.	8.
01042p	COPPER, TOTAL (UG/L AS CU)	03/17/70-07/28/92	13 ##	5.	5.769	10.	5.	3.526	1.878	5.	5.	5.	10.
01051p	LEAD, TOTAL (UG/L AS PB)	11/02/70-07/28/92	13	6.	12.231	70.	3.	321.526	17.931	3.	5.	10.5	50.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/17/70-07/28/92	13	20.	21.077	70.	5.	326.744	18.076	5.	5.	30.	54.
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	158	600.	2564.873	80000.		124347.436	6791.491	50.	200.	2875.	8000.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/30/70-03/18/97	158	2.778	2.822	4.903	1.699	0.567	0.753	1.699	2.301	3.458	3.903
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEA			663.736								
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	03/17/70-06/26/79	31 ##		0.09	0.6	0.025	0.016	0.126	0.05	0.05	0.05	0.14
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/17/70-02/18/97	126	0.045	0.064	0.65	0.005	0.006	0.08	0.017	0.03	0.063	0.13
71900p	MERCURY, TOTAL (UG/L AS HG)	09/14/70-06/25/92	11 ##	0.25	0.205	0.25	0.15	0.003	0.052	0.15	0.15	0.25	0.25

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

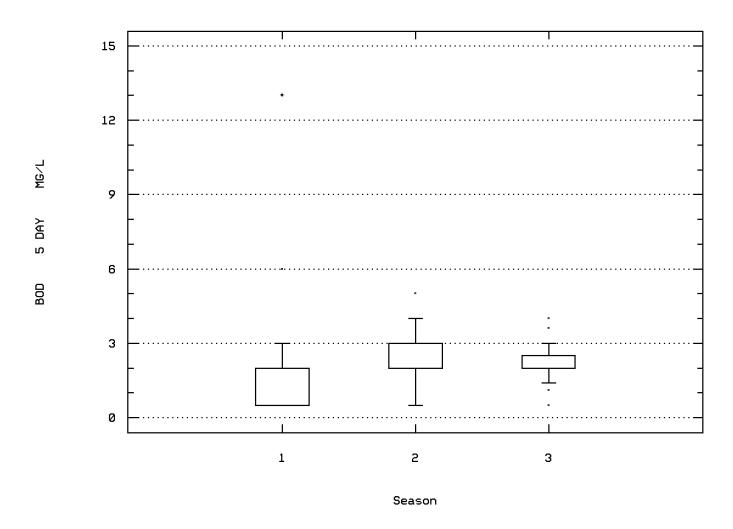
Station: BOWA0014 Parameter Code: 00070 TURBIDITY, (JACKSON CANDLE UNITS)



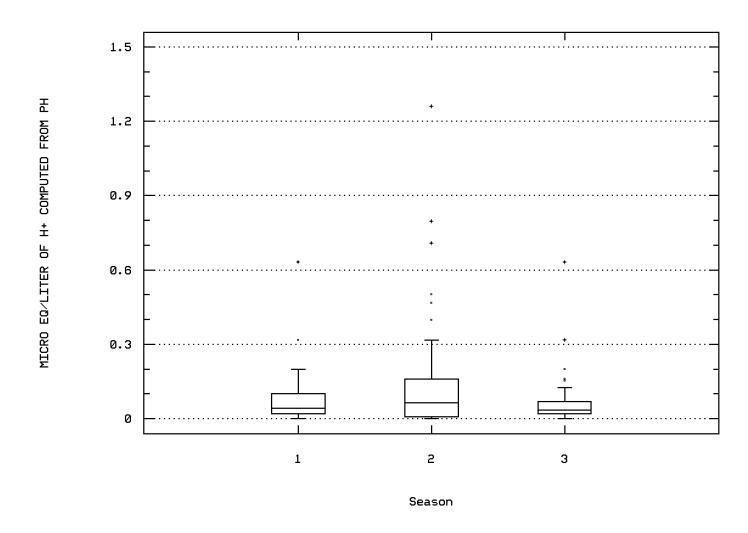
Station: BOWA0014 Parameter Code: 00300
OXYGEN, DISSOLVED



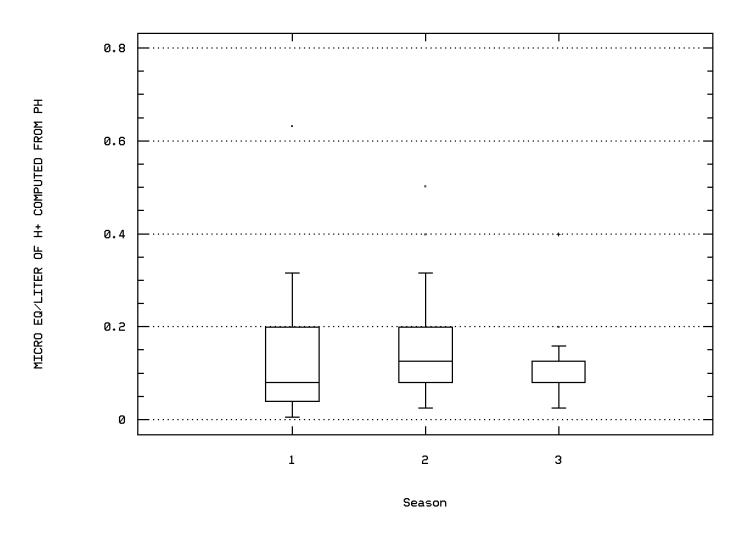
Station: BOWA0014 Parameter Code: 00310 BOD, 5 DAY, 20 DEG C



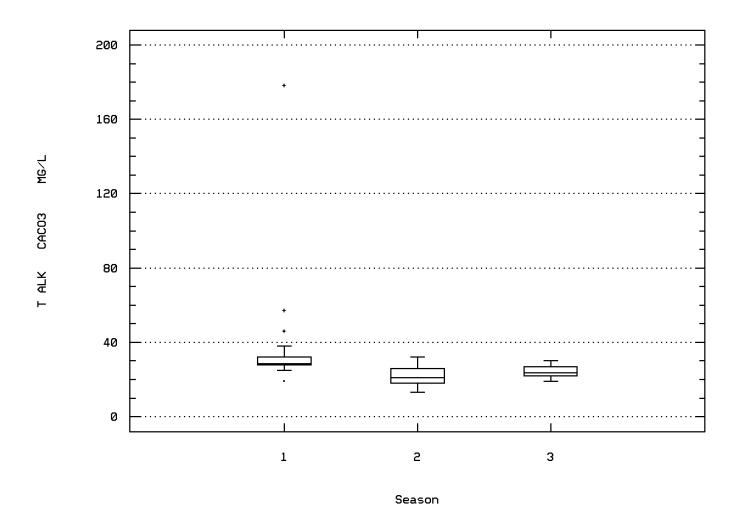
Station: BOWA0014 Parameter Code: 00400 MICRO EQ/LITER OF H+ COMPUTED FROM PH



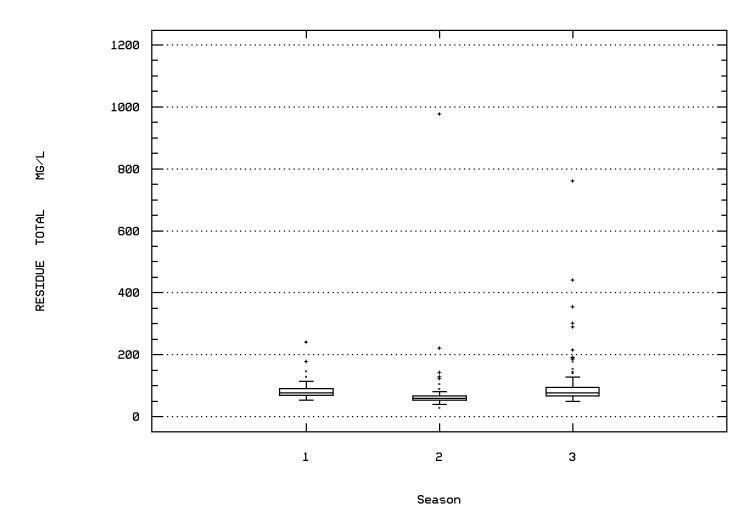
Station: BOWA0014 Parameter Code: 00403 MICRO EQ/LITER OF H+ COMPUTED FROM PH



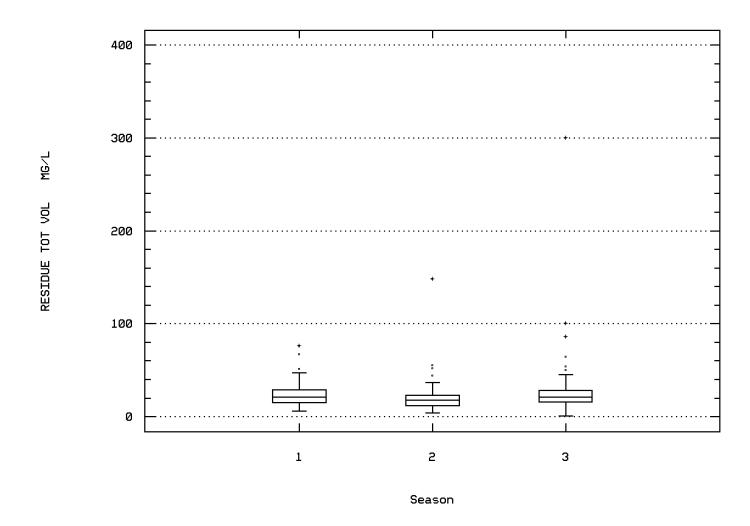
Station: BOWA0014 Parameter Code: 00410 ALKALINITY, TOTAL (MG/L AS CACO3)



Station: BOWA0014 Parameter Code: 00500 RESIDUE, TOTAL (MG/L)

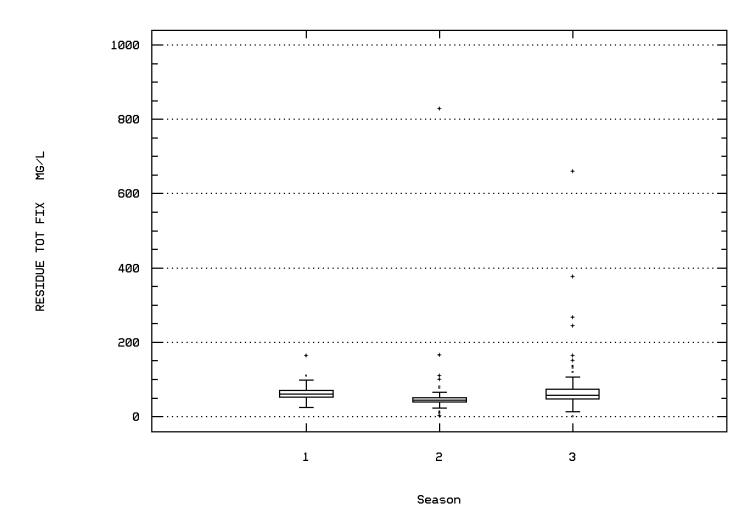


Station: BOWA0014 Parameter Code: 00505 RESIDUE, TOTAL VOLATILE (MG/L)

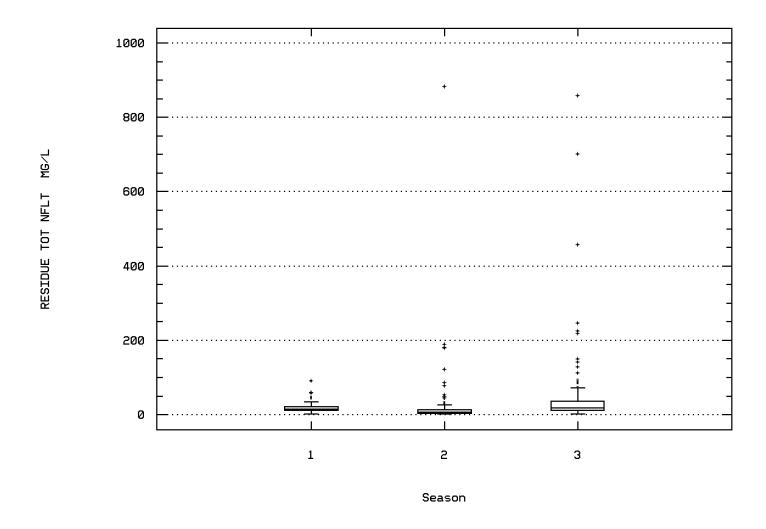


Station: BOWA0014 Parameter Code: 00510

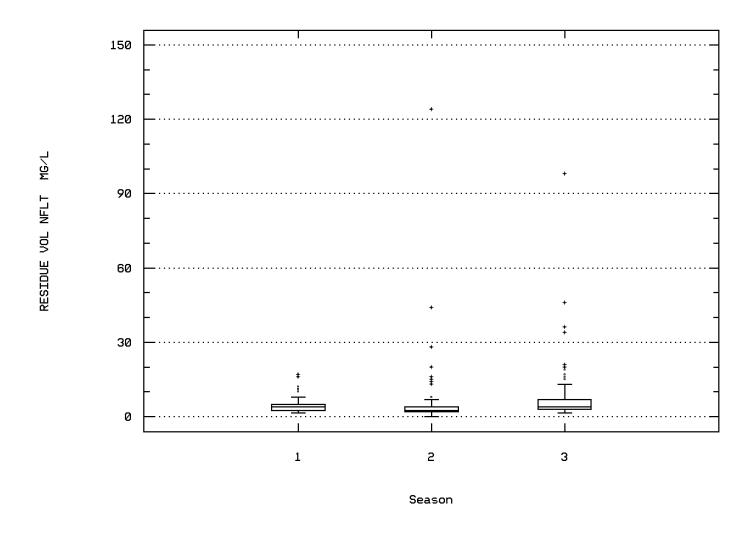
RESIDUE, TOTAL FIXED (MG/L)



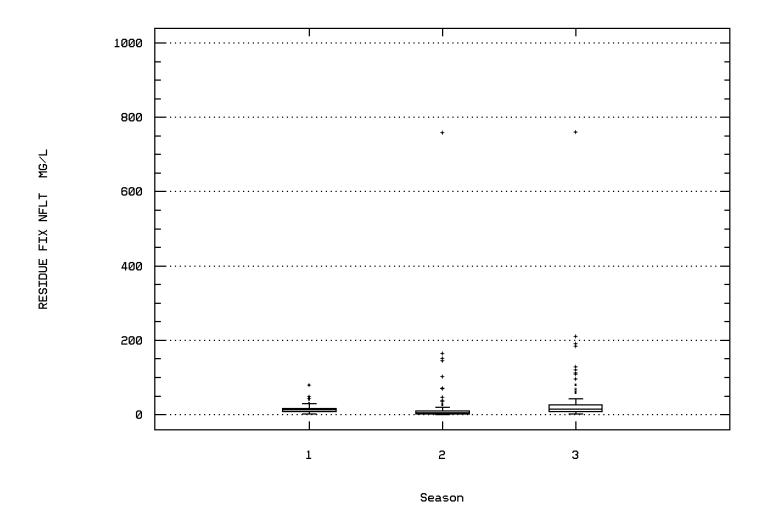
Station: BOWA0014 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)



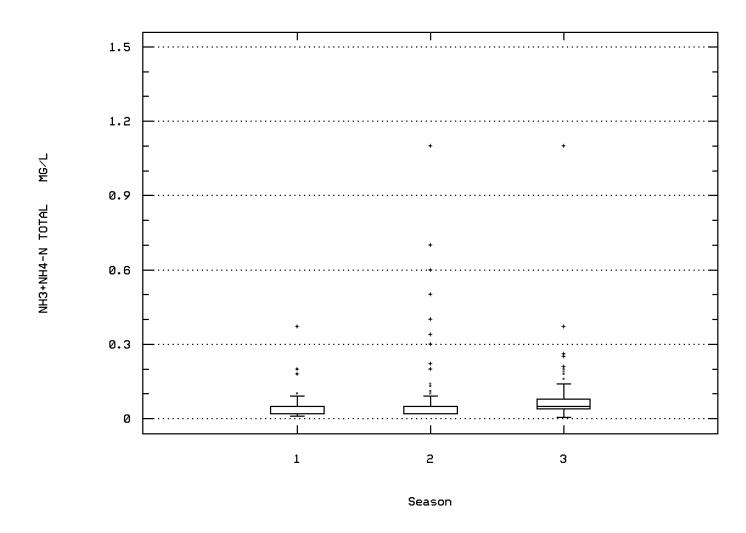
Station: BOWA0014 Parameter Code: 00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)



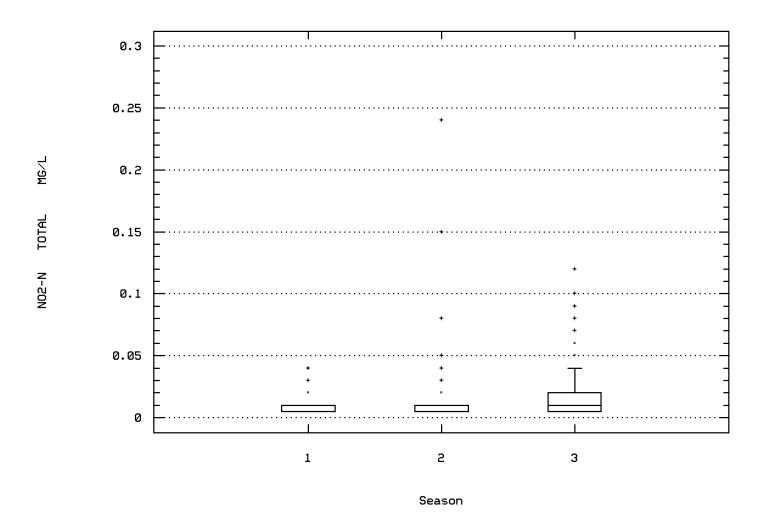
Station: BOWA0014 Parameter Code: 00540 RESIDUE, FIXED NONFILTRABLE (MG/L)



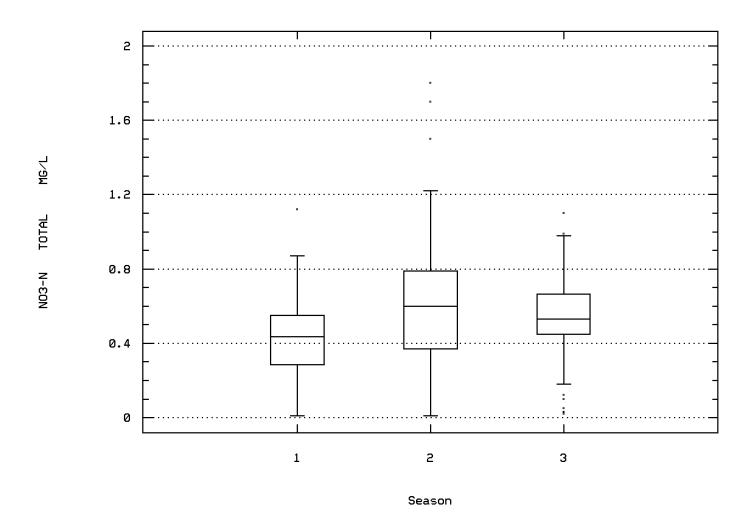
Station: BOWA0014 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



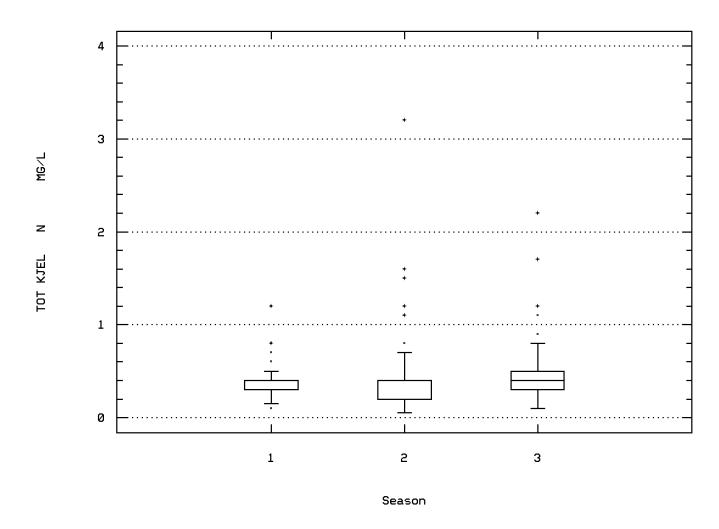
Station: BOWA0014 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



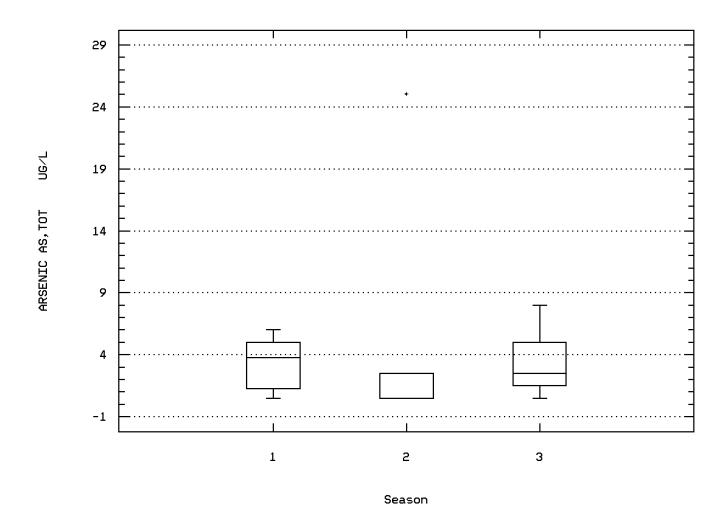
Station: BOWA0014 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)



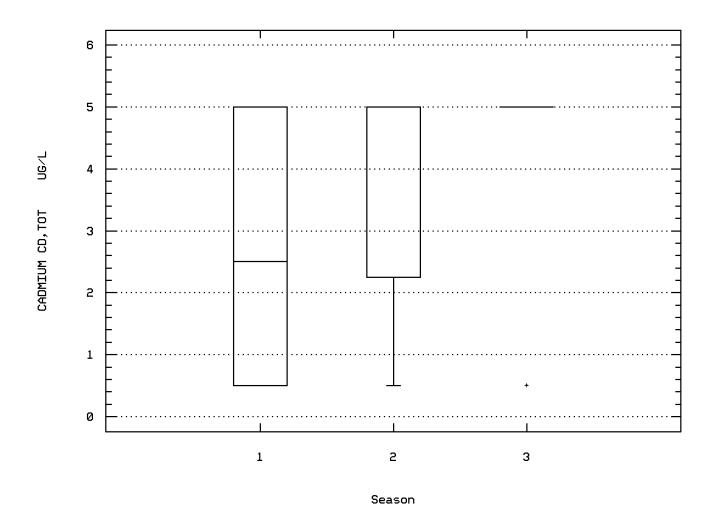
Station: BOWA0014 Parameter Code: 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



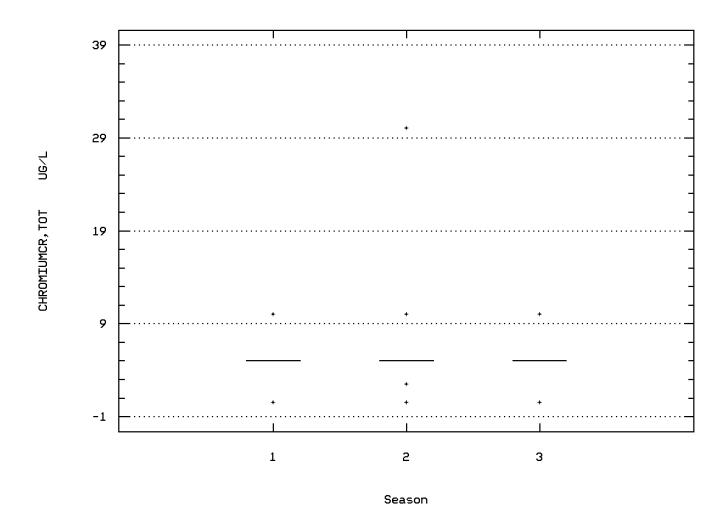
Station: BOWA0014 Parameter Code: 01002 ARSENIC, TOTAL (UG/L AS AS)



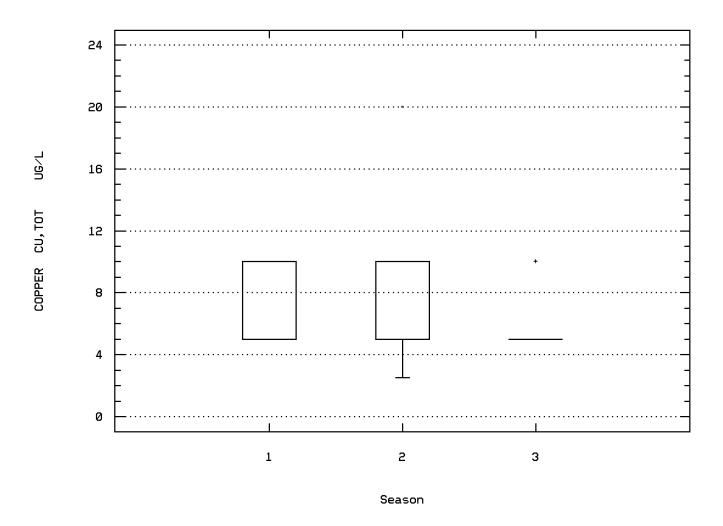
Station: BOWA0014 Parameter Code: 01027 CADMIUM, TOTAL (UG/L AS CD)



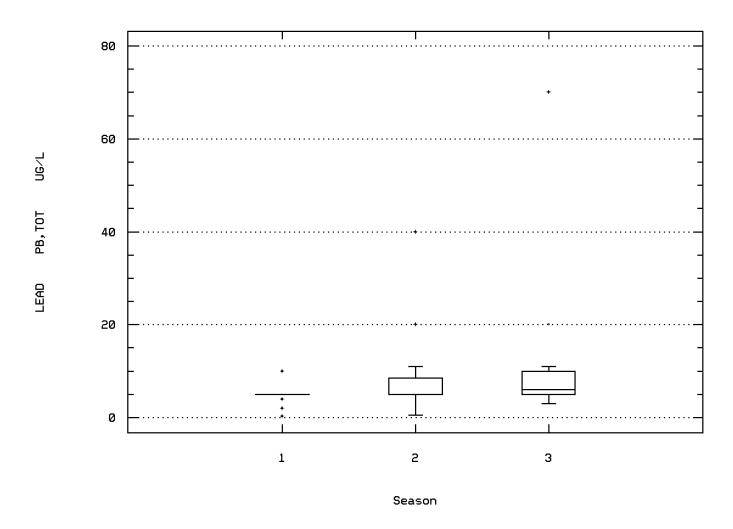
Station: BOWA0014 Parameter Code: 01034 CHROMIUM, TOTAL (UG/L AS CR)



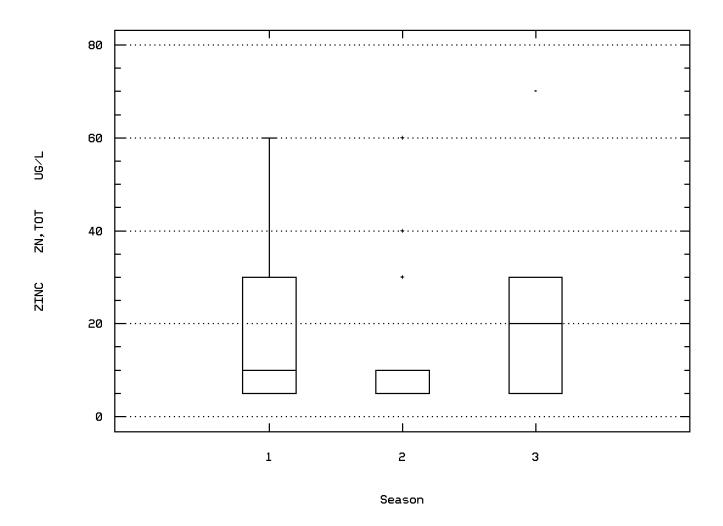
Station: BOWA0014 Parameter Code: 01042 COPPER, TOTAL (UG/L AS CU)



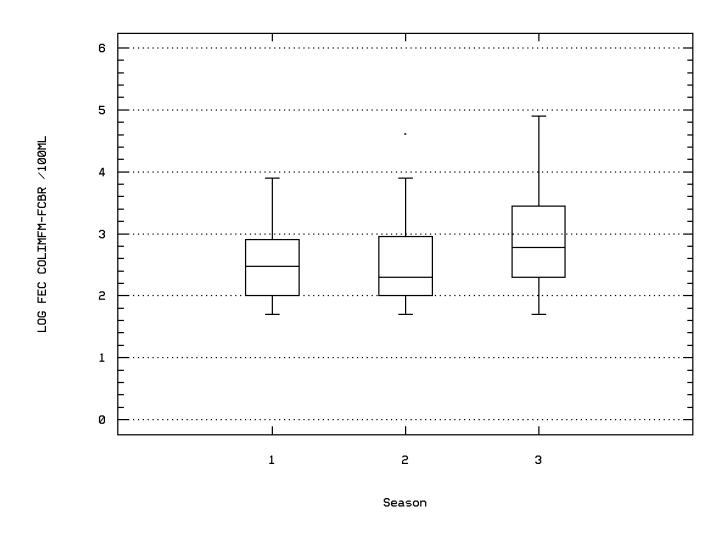
Station: BOWA0014 Parameter Code: 01051 LEAD, TOTAL (UG/L AS PB)



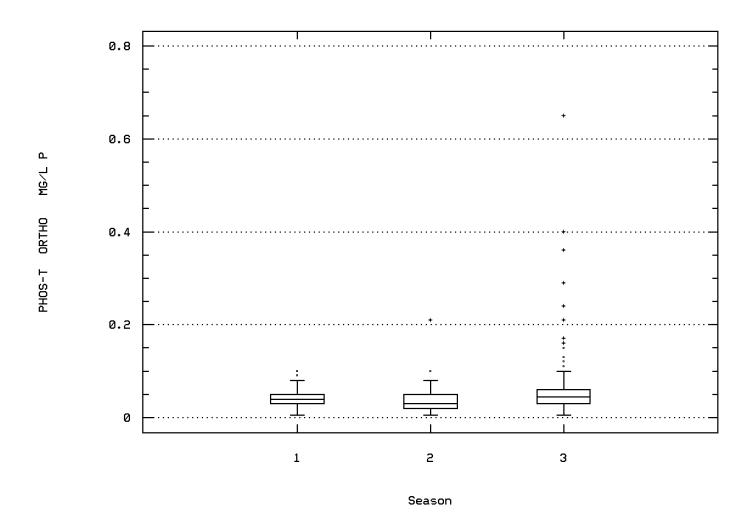
Station: BOWA0014 Parameter Code: 01092 ZINC, TOTAL (UG/L AS ZN)



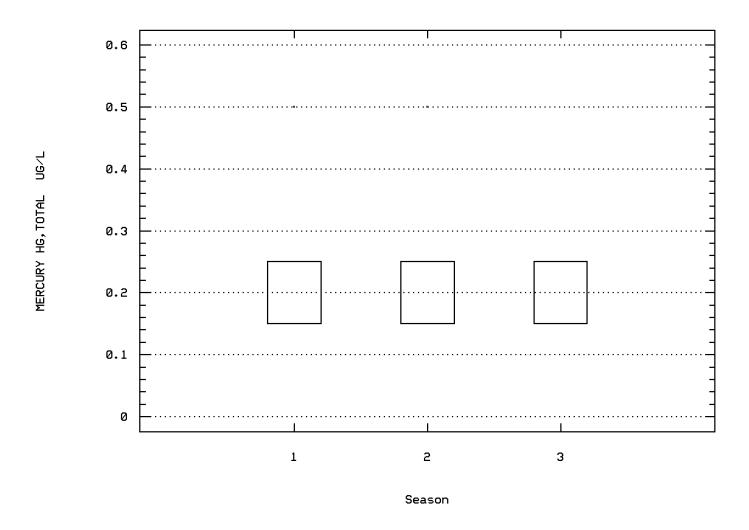
Station: BOWA0014 Parameter Code: 31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



Station: BOWA0014 Parameter Code: 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/



Station: BOWA0014 Parameter Code: 71900 MERCURY, TOTAL (UG/L AS HG)



Station Inventory for Station: BOWA0015

NPS Station ID: BOWA0015 Location: BLACKWATER RIVER

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 03010101 Major Basin: T/SMITH MOUNTAIN LAKE

Minor Basin: RT 834 BRDG 2 MI S OF XROADS RF1 Index: 03010101026

RF3 Index: 03010101002900.00

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 1.130 RF3 Mile Point: 0.18

LAT/LON: 37.055559/ -79.759726

AT BRIDGE ON VA RT 834 APPROX 2 MI S OF CROSSROADS

Agency: 11EPALES FIPS State/County: 51000 VIRGINIA/ STORET Station ID(s): 5110B1 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.03

On/Off RF1: OFF

Date Created: / /

On/Off RF3:

Parameter Inventory for Station: BOWA0015

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/15/73-06/15/74	14	0.033	0.038	0.085	0.01	0.001	0.024	0.013	0.019	0.048	0.085
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/15/73-06/15/74	14	0.003	0.004	0.009	0.001	0.	0.003	0.001	0.001	0.006	0.009
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/15/73-06/15/74	14	0.475	0.476	0.704	0.154	0.027	0.163	0.165	0.413	0.643	0.677
00625	NITROGEN, KJELDAĤL, TOTAĽ, (MG/L AŚ N)	07/15/73-06/15/74	14	0.445	0.505	1.4	0.05	0.16	0.4	0.1	0.193	0.803	1.25
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/15/73-06/15/74	14	0.475	0.479	0.71	0.16	0.027	0.164	0.17	0.415	0.65	0.685
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/15/73-06/15/74	14	0.06	0.103	0.315	0.02	0.008	0.087	0.025	0.039	0.158	0.273
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/73-06/15/74	14	0.02	0.022	0.038	0.01	0.	0.009	0.011	0.015	0.03	0.037

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BOWA0015

				Total	Exceed	Prop.		-8/01-10/14			·10/15-4/30·			5/01-7/31-			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	14	0	$0.0\bar{0}$	2	0	0.00	7	0	0.00	5	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	2	0	0.00	7	0	0.00	5	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	2	0	0.00	7	0	0.00	5	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire BOWA Study Area

						_												
Doromot		Ctd True	Ctd Volue	Total	Exceed	Prop.		8/01-10/14-								Obs	n/a	
Paramete 00070	TURBIDITY, JACKSON CANDLE UNITS	Std. Type Other-Hi Lim.	Std. Value 50.	Obs 96	Standard 8	Exceeding 0.08	Obs 20	Exceed 3	Prop. 0.15	Obs 56	Exceed	Prop. 0.04	Obs 20	Exceed 3	Prop. 0.15	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	167	15	0.09	47	1	0.13	50	0	0.04	70	14	0.13			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	380	27	0.07	99	14	0.14	93	2	0.02	188	ii	0.06			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	853	156	0.18	266	78	0.29	259	18	0.07	328	60	0.18			
00400	PH	Other-Hi Lim.	9.	1250	74	0.06	372	32	0.09	363	4	0.01	515	38	0.07			
		Other-Lo Lim.	6.5	1250	78	0.06	372	19	0.05	363	38	0.10	515	21	0.04			
00403	PH, LAB	Other-Hi Lim.	9.	585	7	0.01	186	2	0.01	209	1	0.00	190	4	0.02			
		Other-Lo Lim.	6.5	585	41	0.07	186	19	0.10	209	15	0.07	190	7	0.04			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1126	0	0.00	330	0	0.00	336	0	0.00	460	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1101	0	0.00	325	0	0.00	322	0	0.00	454	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. CHLORIDE,TOTAL IN WATER	Drinking Water Fresh Acute	10.	74	0	0.00 0.00	15 63	0	0.00	36 95	0	0.00	23 56	0	$0.00 \\ 0.00$			
00940	CHLORIDE, TOTAL IN WATER	Drinking Water	860. 250.	214 214	0	0.00	63	0	0.00	95 95	0	0.00	56	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	212	0	0.00	62	0	0.00	94	ő	0.00	56	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	82	ŏ	0.00	25	ŏ	0.00	38	ŏ	0.00	19	ŏ	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	355	ŏ	0.00	136	ŏ	0.00	94	ŏ	0.00	125	ŏ	0.00			
	,	Drinking Water	50.	355	0	0.00	136	0	0.00	94	0	0.00	125	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	15	0	0.00	6	0	0.00	7	0	0.00	2	0	0.00			
		Drinking Water	4.	4 &	0	0.00	2	0	0.00	_1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	240 &		0.01	92 92	1	0.01	75 75	0	0.00	73	2	0.03			
01024	CUDOMUM TOTAL	Drinking Water	5.	240 &	3	0.01		1	0.01		0	0.00	73	2	0.03			
01034	CHROMIUM, TOTAL	Drinking Water Fresh Acute	100. 18.	382 305 &	0	0.00 0.05	149 121	0	0.00 0.02	103 64	0 2	0.00	130 120	0	0.00 0.10			
01042	COPPER, TOTAL	Drinking Water	1300.	305 & 381	16	0.03	149	0	0.02	102	0	0.03	130	12 0	0.10			
01051	LEAD, TOTAL	Fresh Acute	82.	378	2	0.00	147	0	0.00	101	0	0.00	130	2	0.00			
01031	ELID, TOTAL	Drinking Water	15.	378	25	0.07	147	5	0.03	101	3	0.03	130	17	0.02			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	15	0	0.00	6	Õ	0.00	7	Õ	0.00	2	0	0.00			
	- , -	Drinking Water	2.	3 &	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	27	0	0.00	8	0	0.00	8	0	0.00	11	0	0.00			
		Drinking Water	100.	27	0	0.00	8	0	0.00	8	0	0.00	11	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	323	0	0.00	124	0	0.00	86	0	0.00	113	0	0.00			
01077	CHAIR TOTAL	Drinking Water	100.	323	0	0.00	124	0	0.00	86	0	0.00	113	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Drinking Water Fresh Acute	100. 120.	1 379	18	0.00 0.05	149	3	0.02	100	0	0.00	130	15	0.12			
01092	ZINC, TOTAL	Drinking Water	5000.	379	0	0.00	149	0	0.02	100	0	0.00	130	0	0.12			
01147	SELENIUM, TOTAL	Fresh Acute	20.	299	4	0.01	114	ŏ	0.00	85	4	0.05	100	ŏ	0.00			
01117	DEED TOTAL	Drinking Water	50.	299	Ó	0.00	114	ŏ	0.00	85	0	0.00	100	ŏ	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	6	0.86	2	2	1.00	2	2	1.00	3	2	0.67			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	703	405	0.58	195	98	0.50	200	106	0.53	308	201	0.65			
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	3	0	0.00	2 2	0	0.00				1	0	0.00			
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	3	0	0.00	2	0	0.00				1	0	0.00			
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	0 &	0	0.00	•		0.00			0.00	•		0.00			
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	5 5	0	0.00 0.00	2 2	0	0.00	1	0	0.00	2	0	$0.00 \\ 0.00$			
39300	P,P' DDT IN WHOLE WATER SAMPLE	Drinking Water Fresh Acute	1. 1.1	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
39310	P.P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	5 5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	5	0	0.00	2 2	0	0.00	i	0	0.00	2	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	8	ŏ	0.00	3	ŏ	0.00	i	ŏ	0.00	4	ŏ	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	3	Ö	0.00	2	ő	0.00	-	,		i	Ö	0.00			
	, ,,	Drinking Water	0.2	3	0	0.00	2	0	0.00				1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	2.	2	0	0.00		_		1	0	0.00	1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	5	0	0.00	2	0	0.00	Į,	0	0.00	2	0	0.00			
20400	TOXAPHENE IN WHOLE WATER SAMPLE	Drinking Water	2. 0.73	5	0	0.00 0.00	2 2	0	$0.00 \\ 0.00$	1	0	0.00	2	0	$0.00 \\ 0.00$			
39400	TOAAFTIENE IN WHOLE WATER SAMPLE	Fresh Acute Drinking Water	3.	3	0	0.00	2	0	0.00				1	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	3. 0.52	3	0	0.00	2	0	0.00				1	0	0.00			
J/TIU	TEL TIONEOUT WHOLE WITH DAWN LE	Drinking Water	0.32	3	ő	0.00	2	0	0.00				i	0	0.00			
		0																

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire BOWA Study Area

				Total	Exceed	Prop.		-8/01-10/14			-10/15-4/30-			5/01-7/31-			n/a	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	$0.0\bar{0}$	2	0	0.00			-	1	0	0.00			-
		Drinking Water	0.2	3	0	0.00	2	0	0.00				1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00				1	0	0.00	1	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	2	0	0.00	1	0	0.00	1	0	0.00						
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	1.	2	0	0.00				1	0	0.00	1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	3	0	0.00	2	0	0.00				1	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	394	0	0.00	154	0	0.00	113	0	0.00	127	0	0.00			
		Drinking Water	2.	394	0	0.00	154	0	0.00	113	0	0.00	127	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	166	4	0.02	46	0	0.00	32	1	0.03	88	3	0.03			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Parameter Inventory Data Evaluation and Analysis: Missing Level I Groups

There are STORET Data for Every Level I I&M Parameter Group Within
the BOWA Study Area

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the BOWA Study Area Exist for These Groups:

		Total	01/01/85 to	01/01/75 to	Before	Total
Alkalinit	,	Obs.	03/18/97	12/31/84	01/01/75	Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	605	513	66	26	8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	2	0	0	2	2
		607	513	66	28	10 (8)!
		Total	01/01/85 to	01/01/75 to	Before	Total
pН		Obs.	03/18/97	12/31/84	01/01/75	Stations
00400	PH (STANDARD UNITS)	1252	843	236	173	10
00403	PH, LAB (STANDARD UNITS)	587	516	65	6	7
		1839	1359	301	179	17 (10)
		Total	01/01/85 to	01/01/75 to	Before	Total
Conducti	vity	Obs.	03/18/97	12/31/84	01/01/75	Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @, 25C)	714	634	60	20	7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	331	311	0	20	7
	-	1045	945	60	40	14 (7)
		Total	01/01/85 to	01/01/75 to	Before	Total
Dissolve	d Oxygen	Obs.	03/18/97	12/31/84	01/01/75	Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	382	382	0	0	6
00200	OXYGEN, DISSOLVED (MG/L)	853	441	240	172	10
00300	ONT GEN, BISSOEVEB (MG/E)	1235	823	240	172	16 (10)!
		Total	01/01/85 to	01/01/75 to	Before	Total
	emperature	Obs.	03/18/97	12/31/84	01/01/75	Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1246	833	238	175	10
		1246	833	238	175	10 (10)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Flow		Obs.	03/18/97	12/31/84	01/01/75	Stations
00061	FLOW, STREAM, INSTANTANEOUS CFS	2	2	0	0	1
00067	TIDE STAGE CODE	1	0	0	1	1
		3	2	0	1	2 (1)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Clarity/T	urbidity	Obs.	03/18/97	12/31/84	01/01/75	Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	96	93	0	3	5
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	167	167	0	0	6
00077	TRANSPARENCY, SECCHI DISC (INCHES)	3	0	0	3	1
00078	TRANSPARENCY, SECCHI DISC (METERS)	31	31	0	0	4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	930	793	128	9	8
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	169	169	0	0	6
		1396	1253	128	15	30 (9)!

Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

		Total	01/01/85 to	01/01/75 to	Before	Total
Nitrate/N	E .	Obs.	03/18/97	12/31/84	01/01/75	Stations
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1143	788	202	153	12
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	1103	795	176	132	11
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	1143	789	201	153	12
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	74	0	26	48	4
		3463	2372	605	486	39 (12) [!]
		Total	01/01/85 to	01/01/75 to	Before	Total
	e/Phosphorus	Obs.	03/18/97	12/31/84	01/01/75	Stations
00665	PHOSPHORUS, TOTAL (MG/L AS P)	968	793	127	48	10
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	462	288	126	48	9
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	179	0	74	105	4
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	573	394	74	105	8
		2182	1475	401	306	31 (12)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Chloroph	yll	Obs.	03/18/97	12/31/84	01/01/75	Stations
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	16	16	0	0	4
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH	I. 13	13	0	0	4
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	3	0	0	3	1
		32	29	0	3	9 (5)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Sulfates/7	Γotal Dissolved Solids/Hardness	Obs.	03/18/97	12/31/84	01/01/75	Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	306	306	0	0	5
00945	SULFATE, TOTAL (MG/L AS SO4)	214	214	0	0	5
		520	520	0	0	10 (5)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Bacteria		Obs.	03/18/97	12/31/84	01/01/75	Stations
31505	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C(TUBE 31506)	7	0	0	7	1
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	703	431	133	139	8
		710	431	133	146	9 (8)!

Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Ele	ements	Total Obs.	01/01/85 to 03/18/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01002	ARSENIC, TOTAL (UG/L AS AS)	357	257	81	19	9
01002	BERYLLIUM, TOTAL (UG/L AS BE)	17	16	1	0	4
01012	CADMIUM, TOTAL (UG/L AS CD)	368	257	81	30	9
01027	CHROMIUM, TOTAL (UG/L AS CR)	384	257	86	41	9
01034	COPPER, TOTAL (UG/L AS CU)	383	256	86	41	9
01042	LEAD, TOTAL (UG/L AS PB)	380	255	86	39	9
71900		396	272	86	38	9
01065	MERCURY, TOTAL (UG/L AS HG)	396 27	0	15	38 12	4
	NICKEL, DISSOLVED (UG/L AS NI)					•
01067	NICKEL, TOTAL (UG/L AS NI)	325	254	71	0	7
01147	SELENIUM, TOTAL (UG/L AS SE)	301	234	67	0	7
01077	SILVER, TOTAL (UG/L AS AG)	1	1	0	0	l
01059	THALLIUM, TOTAL (UG/L AS TL)	17	16	1	0	4
01092	ZINC, TOTAL (UG/L AS ZN)	381	254	86	41	9
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)		2	3	0	2
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	2	0	2	0	1
34461	PHENANTHRENE, TOTAL (UG/L)	2	2	0	0	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	8	2	6	0	4
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	3	2	1	0	2
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	3	2	1	0	2
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	3	2	1	0	2
34259	DELTA BENZÈNE HEXACHLORIDE, TOTAL (UG/L)	3	2	1	0	2
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	2	0	2	0	1
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	5	2	3	0	2
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	5	2	3	0	2
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	5	2	3	0	2
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	6	2	3	1	2
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	3	2	1	0	2
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	3	2	1	0	2
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	3	2	1	0	$\frac{-}{2}$
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	5	2	3	ő	2
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	3	2	1	ő	2
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
39508	PCB - 1240 PCB SERIES WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
34671	PCB - 1200 PCB SERIES WHOLE WATER SAMPLE (UG/L)	3	2	1 1	0	2
	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	3	2 2	1	0	2
39400	TOAAPHENE IN WHOLE WATER SAMPLE (UG/L)			I		
		3430	2377	791	262	141 (10)!

Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

Parameter Group	Total Obs.	Obs. Since 1985	% Obs. Since 1985	Stations Measuring This Group	% of Total Stations Measuring This Group	Obs. Per Station Measuring This Group	Period of Record For This Group	Observations Per Year of Period of Record
Alkalinity	607	513	84.5	8	53.3	75.9	03/17/70-02/18/97	22.5
pH	1839	1359	73.9	10	66.7	183.9	03/17/70-03/18/97	68.1
Conductivity	1045	945	90.4	7	46.7	149.3	04/04/73-03/18/97	43.6
Dissolved Oxygen	1235	823	66.6	10	66.7	123.5	03/17/70-03/18/97	45.7
Water Temperature	1246	833	66.9	10	66.7	124.6	03/17/70-03/18/97	46.1
Flow	3	2	66.7	1	6.7	3.0	07/20/72-08/27/96	0.1
Clarity/Turbidity	1396	1253	89.8	9	60.0	155.1	03/17/70-02/18/97	51.8
Nitrate/Nitrogen	3463	2372	68.5	12	80.0	288.6	03/17/70-02/18/97	128.6
Phosphate/Phosphorus	2182	1475	67.6	12	80.0	181.8	03/17/70-02/18/97	81.0
Chlorophyll	32	29	90.6	5	33.3	6.4	04/04/73-10/03/90	1.8
Sulfates/Total Dissolved Solids/Hardness	520	520	100.0	5	33.3	104.0	06/04/86-02/18/97	48.5
Bacteria	710	431	60.7	8	53.3	88.8	04/20/70-03/18/97	26.4
Toxic Elements	3430	2377	69.3	10	66.7	343.0	03/17/70-10/06/94	139.7

Water Quality Observations Outside STORET Edit Criteria for BOWA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
BOWA0001	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	730716	1145	115.0000000	11EPALES	511003	X
BOWA0001	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	730716	1145	110.0000000	11EPALES	511003	X
BOWA0001	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	730716	1145	116.0000000	11EPALES	511003	X
BOWA0001	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	730716	1145	118.0000000	11EPALES	511003	X
BOWA0001	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	730716	1145	119.0000000	11EPALES	511003	X
BOWA0001	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	730716	1145	115.0000000	11EPALES	511003	X
BOWA0004	00403	PH, LAB, STANDARD UNITS SU	831006	1015	80.0000000	21VASWCB	4AROA175.63	X
BOWA0004	01045	IRON, TOTAL (UG/L AS FE)	870810	1435	64064.0000000	21VASWCB	4AROA175.63	X
BOWA0005	01045	IRON, TOTAL (UG/L AS FE)	850717	1600	63840.0000000	21VASWCB	4AGIL003.59	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	921005	1105	4300.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	921005	1110	4300.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	921005	1115	4200.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930914	1100	5260.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930914	1110	5580.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930914	1120	5170.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	931019	1105	5770.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	931019	1110	4880.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	00927	MAGNESIUM, TOTAL (MG/L AS MG)	931019	1115	5850.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	01045	IRON, TOTAL (UG/L AS FE)	850717	1630	70200.0000000	21VASWCB	4AGIL002.39	X
BOWA0007	01045	IRON, TOTAL (UG/L AS FE)	870914	1430	70000.0000000	21VASWCB	4AGIL002.39	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	921005	1405	3100.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	921005	1410	3100.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	921005	1415	3100.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930914	1400	3120.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930914	1410	3060.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930914	1420	3110.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	931019	1405	4550.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	931019	1410	4250.0000000	21VASWCB	4ABWR017.42	X
BOWA0013	00927	MAGNESIUM, TOTAL (MG/L AS MG)	931019	1415	4640.0000000	21VASWCB	4ABWR017.42	X
BOWA0014	00927	MAGNESIUM, TOTAL (MG/L AS MG)	920728	1220	3230.0000000	21VASWCB	4ABWR019.75	X

APPENDICES

Appendix A

Computer Files Transmitted With

Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E COMPRESS.ZIP FILENAME.EXT

where COMPRESS.ZIP is the name of one of the seven compressed (ZIP) files listed below and FILENAME.EXT is the name of the file you wish to extract. If you want to decompress all of the files in COMPRESS.ZIP, simply omit the FILENAME.EXT. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V COMPRESS.ZIP | MORE

where COMPRESS.ZIP is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for FILENAME.EXT in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menudriven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) <u>BOWATABS.ZIP</u>

This compressed file contains all the tables presented in the report. The files compressed into this file include:

- (a) BOWASITE.DOC Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.
- (b) BOWAAGNC.DOC Contacts for agencies whose data were retrieved within the study area.
- (c) BOWAAGNQ.DOC Number of stations, observations, and parameters retrieved by agency code within the study area and park.

(d) BOWAOV0.DOC - Overview of park and retrieved data.

(e) BOWAOV1.DOC - Station period of record table.

(f) BOWAOV2.DOC - Parameter period of record table.

(g) BOWAOV3.DOC - Station/parameter period of record table.

(h) BOWAINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.

(i) BOWASEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.

(j) BOWAEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.

(k) BOWAIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.

(l) BOWABAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document BOWAOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\BOWAOV1.DOC. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). Alternatively, you can use the PRINTZIP program to decompress and print any of these files provided the ZIP file doesn't span multiple disks. These ASCII files can also be imported into word-processed documents, but the printer codes will then have to be removed.

(2) <u>BOWAFIGS.ZIP</u>

This compressed file contains graphics files for all the statistical figures (time series plots; annual box and whiskers plots; seasonal box and whiskers plots) in the report in two different formats: Computer Graphic Metafile (CGM) and Hewlett-Packard Printer Control Language (PCL). The files are named with the last three digits of the Station Name followed by the five digit STORET code. The file name extension begins with either a 1 (time series), 2 (annual), or 3 (seasonal) and then either GM for CGM or CL for PCL. For example, 00100300.2GM would denote the file contains an annual box and whiskers plot in CGM format for parameter 00300 (dissolved oxygen) at station BOWA0001. While at the DOS prompt, any PCL file can be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the COPY command. For example, if the graphic 00100300.2CL (an annual box and whiskers plot of parameter 00300, dissolved oxygen, at station BOWA0001) is in the subirectory C:\WATER, you would type: COPY C:\WATER\00100300.2CL LPT1: /B. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). The /B is necessary because the PCL file is in a binary format. Alternatively, you can use the PRINTZIP program to decompress and print any of the PCL files provided the ZIP file doesn't span multiple disks. The CGM files can be imported and/or edited in most graphics packages, including WordPerfect.

(3) BOWAPARM.ZIP

This file compresses BOWAPARM.DBF which contains all the actual values (raw data) of all the water quality data downloaded from STORET and summarized in the report. The detailed database structure for this file is contained in Appendix B.

(4) BOWASITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

(a) BOWAWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

(b) BOWAIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.

(c) BOWADRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.

(d) BOWAGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.

(e) BOWADAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) BOWAMISC.ZIP

This compressed file contains a variety of graphic and document files that are contained in the report. They are grouped into this miscellaneous compressed (ZIP) file because they don't fit neatly into any of the other compressed files. The files contained in this compressed file include:

(a) BOWAEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) BOWATOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.

(c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.

(d) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.

(e) BOWAREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.

(f) BOWAWQ

- PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (BOWAWQA, BOWAWQB, BOWAWQC, etc.) and the index map name will end with an ampersand (&).

(g) BOWAIDG

PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (BOWAIDGA, BOWAIDGB, BOWAIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.

(h) BOWASEHY

- PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with BOWAFIGS.ZIP and BOWATABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in BOWAMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) BOWARF3.ZIP

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

(a) 12345678.RF3

 ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(b) 12345678.DBF

DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(c) 12345678.TRC

 ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.

(d) 12345678.CUB

- ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) <u>BOWAWQMW.ZIP</u>

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

Parameter Data File: BOWAPARM.DBF in BOWAPARM.ZIP								
Field Name	Start	Stop	Length	Field Description				
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)				
BEGDATE	9	14	6	Measurement Start Date [yymmdd]				
BEGTIME	15	18	4	Measurement Start Time [hhmm]				
PARMCODE	19	23	5	STORET Parameter Code				
PARMVALU	24	39	16.7	Parameter Value				
REMARK	40	40	1	Parameter Remark Value				
				A=Value is Mean of 2 or More Determinations				
				B=Results Based Upon Colony Counts Outside Acceptable Range				
				C=Value Calculated				
				D=Field Measurement				
				E=Extra Sample Taken in Compositing Process				
				F=Female Species				
				G=Maximum of 2 or More Determinations				
				H=Based on Field Kit Determination				
				I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit				
				J=Estimated, Not the Result of Analytic Measurement				
				K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown				
				L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown				

Parameter Data File: BOWAPARM.DBF in BOWAPARM.ZIP									
Field Name	Start	Stop	Length	Field Description					
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value					
				N=Presumptive Evidence of Presence					
				O=Analysis Lost					
				P=Too Numerous to Count					
				Q=Exceeded Normal Holding Time					
				R=Significant Rain in Last 48 Hours					
				S=Laboratory test					
				T=Less Than Detection Criteria					
				U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined					
				V=Analyte was Detected in Sample and Method Blank					
				W=Less Than Lowest Value Reportable Under Remark "T"					
				X=Quasi Vertically-Integrated Sample					
				Y=Analysis of Unpreserved Sample					
				Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value					
				\$=Calculated By Retrieval Software					
MEDIA	41	46	6	Sample Media					
DEPTH	47	55	9.3	Depth of Sample [in feet]					
ENDDATE	56	61	6	Measurement End Date [yymmdd] [all composite samples]					
ENDTIME	62	65	4	Measurement End Time [hhmm] [all composite samples]					
SAMPTYPE	66	69	4	Type of Sample ["sophisticated" composite samples]					
				C=Continuous Collection					
				G=Collection of Individual Grab Samples					
				GNxx=xx is the Number of Individual Grab Samples					
				B=N/A					

	<u>Par</u>	ameter I	Data File: B	BOWAPARM,DBF in BOWAPARM.ZIP
Field Name	Start	Stop	Length	Field Description
СОМРТҮРЕ	70	70	1	Composite Value Type ["sophisticated" composite samples]
				A=Average
				H=Maximum
				L=Minimum
				N=Number of Observations
				#=Number of Observations
				S=Standard Deviation
				U=Sum of Squares
				V=Variance
				C=Coefficient of Error
				X=Coefficient of Variance
				E=Skewness
				F=Kurtosis
				Z=Number of Observations That Exceed an Established Limit
				%=Precision
				\$=Accuracy
				B=N/A
				D=Indicates Replicate Sample
COMPST	71	71	1	Composite Space/Time Indicator
				S=Space
				T=Time
				B=Space and Time
				F=Flow Proportional
				1-9=Replicate Number

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Quality Station Data File: BOWAWQ.DBF in BOWASITE.ZIP							
Field Name	Start	Stop	Length	Field Description			
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)			
AGENCY	9	16	8	Agency Code of Station Owner			
STORIDP	17	31	15	STORET Primary Station Code			
STORIDS1	32	43	12	STORET First Secondary Station Code			
STORIDS2	44	55	12	STORET Second Secondary Station Code			
STORIDS3	56	65	10	STORET Third Secondary Station Code			
LATITUDE	66	73	8	Station Latitude [degrees:minutes:seconds]			
LONGITUDE	74	82	9	Station Longitude [degrees:minutes:seconds]			
LAT	83	93	11.6	Station Latitude [decimal degrees, (-) below equator]			
LON	94	104	11.6	Station Longitude [decimal degrees, (-) western hemisphere]			
LLPREC	105	105	1	Latitude/Longitude Precision Code			
RMI	106	329	224	River Mile Index			
STATLOC	330	377	48	Station Location Description			
CNTYCODE	378	382	5	FIPS State/County Code			
STNAME	383	398	16	State Name			
CNTYNAME	399	418	20	County Name			
HYDUNIT	419	426	8	Hydrologic Unit Code (MAJ/MIN/SUB = Catalog Unit)			
MAJBASN	427	450	24	Major Basin Name			
MINBASN	451	490	40	Minor Basin Name			
STATTYPE	491	550	60	Station Type			
STORDATE	551	556	6	Date Station was Stored in STORET			
RF1INDEX	557	567	11	RF1 Reach Number Location [2]			
RF1MILE	568	575	8.3	Mile Point on RF1 Reach [2]			
RF1LOC	576	578	3	Indicates the Location as ON or OFF RF1 Reach [2]			
RF1DIST	579	584	6.2	Distance From RF1 Reach			

Water Quality Station Data File: BOWAWQ.DBF in BOWASITE.ZIP							
Field Name	Start	Stop	Length	Field Description			
RF3INDEX	585	601	17	RF3 Reach Number Location [3]			
RF3MILE	602	607	6.2	Mile point on RF3 Reach [3]			
RF3LOC	608	610	3	Indicates the Location as ON or OFF RF3 Reach [2]			
RF3DIST	611	616	6.2	Distance From RF3 Reach			
DEPH2O	617	620	4	Depth of Water at Station Location [in feet]			
ELEV	621	625	5	Station Elevation			
ECOREG	626	628	3	ECO Region			
H2OBODY	629	678	50	Waterbody ID			
AQUIFERS	679	718	40	Aquifer Description			
STATDESC1	719	790	72	Station Sentence Description			
STATDESC2	791	862	72	Station Sentence Description			
STATDESC3	863	934	72	Station Sentence Description			
STATDESC4	935	1006	72	Station Sentence Description			
STATDESC5	1007	1078	72	Station Sentence Description			
STATDESC6	1079	1150	72	Station Sentence Description			
STATDESC7	1151	1222	72	Station Sentence Description			
STATDESC8	1223	1294	72	Station Sentence Description			
STATDESC9	1295	1366	72	Station Sentence Description			
STATDESC10	1367	1438	72	Station Sentence Description			
STATDESC11	1439	1510	72	Station Sentence Description			
STATDESC12	1511	1582	72	Station Sentence Description			
STATDESC13	1583	1654	72	Station Sentence Description			
STATDESC14	1655	1726	72	Station Sentence Description			
STATDESC15	1727	1798	72	Station Sentence Description			
STATLOCKED	1799	1799	1	Station Locked (Logical) True/False			

The following table provides the DBASE III+ database field structures for the EPA Industrial Facilities Discharge database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Industrial Facilities Discharges File: BOWAIFD.DBF in BOWASITE.ZIP							
Field Name	Start	Stop	Length	Field Description			
SITEID	1	9	9	Site Identifier (NPDES Number)			
LATITUDE	10	17	8	Facility Latitude (Degrees:Minutes:Seconds)			
LONGITUDE	18	26	9	Facility Longitude (Degrees:Minutes:Seconds)			
LAT	27	37	11.6	Facility Latitude (decimal degrees, (-) below equator)			
LON	38	48	11.6	Facility Longitude (decimal degrees, (-) west. hem.)			
RF1INDEX	49	59	11	RF1 Reach Number Location			
RF1MILE	60	65	6.2	Mile Point on RF1 Reach			
RF1DIST	66	71	6.2	Distance From RF1 Reach			
RF3INDEX	72	88	17	RF3 Reach Number Location			
RF3MILE	89	94	6.2	Mile Point on RF3 Reach			
RF3DIST	95	100	6.2	Distance From RF3 Reach			
ADR	101	125	25	Address			
BFL	126	132	7.2	Total Direct Combined C&P Flow (1000 GPD)			
CCFLG	133	133	1	Coastal County Flag "Y"/"N"/"E"=Estuary			
CC1	134	138	5	City Code #1 (EPA Code)			
CFL	139	145	7.2	Total Direct Cooling Flow (1000 GPD)			
CNC	146	148	3	County Code (FIPS)			
CTY	149	168	20	City Name			
CZIP	169	177	9	Canadian Zip Code			
DNB	178	186	9	Dunn & Bradstreet Number			
DNBFLG	187	187	1	Dunn & Bradstreet PCS Source Flag			
EGF	188	202	15.4	Flow From Effluent Guidelines (1000 GPD)			
EGS	203	208	6	Effluent Guidelines Subcategory			
EXPDT	209	216	8	Expiration Date (mm/dd/yy)			
E308SN	217	220	4	Effluent Guidelines Survey Number			
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)			
FDS	230	232	3	Facility Data Source			

Industrial Facilities Discharges File: BOWAIFD.DBF in BOWASITE.ZIP							
Field Name	Start	Stop	Length	Field Description			
FFL	233	239	7.2	Total Facility Flow (1000 GPD)			
FHF	240	240	1	Fac. Hit Flag (Reach File) V=Versar Assumed			
FLOTYP	241	243	3	I=Blow Down, R=Bottom Ash, S=Fly Ash			
FLR	244	250	7.2	Flow Recvd-Industrial (1000 GPD) Permit Data			
FRDS	251	259	9	FRDS ID# - XREF To Water Supply			
FRW	260	289	30	Facility Receiving Water Name			
FS1	290	293	4	Facility SIC Code (From PCS)			
FS2	294	297	4	Facility SIC Code #1			
FS3	298	301	4	Facility SIC Code #2			
FS4	302	305	4	Facility SIC Code #3			
FS5	306	309	4	Facility SIC Code #4			
FUD	310	317	8	Facility Level Last Date Updated (mm/dd/yy)			
IACC	318	318	1	Inactive/Active Indicator ("I" or "A")			
ICAT	319	320	2	WQAB Industrial Category			
ICAT2	321	322	2	WQAB Industrial Category 2			
ICAT3	323	324	2	WQAB Industrial Category 3			
IFL	325	331	7	Total Indirect Flow (1000 GPD)			
IFT	332	332	1	Illinois Facility Type (A thru Z)			
IG1	333	334	2	Facility Industrial Group #1			
IG2	335	336	2	Facility Industrial Group #2			
IJCN	337	346	10	Canadian Record Identifier			
INACT	347	353	7	Inactive/Rescinded P=Based on Permit;A=Actual			
INDCNT	354	357	4	Computed Number of Indirect Dischargers			
LATLON	358	372	15	Polygon Retrieval Lat/Long.			
MAJ	373	373	1	Major-Minor Flag (From PCS)			
MAPID	374	377	4	Map Identifier			
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)			
NAM	382	441	60	Facility Name			
NDC	442	444	3	Number of Discharges (Pipes)			

Industrial Facilities Discharges File: BOWAIFD,DBF in BOWASITE.ZIP						
Field Name	Start	Stop	Length	Field Description		
NDSFLO	445	451	7.2	NEEDS Flow (1000 GPD)		
NDSIFLO	452	458	7.2	NEEDS Industrial Flow (1000 GPD)		
NID	459	462	4	Number of Indirect Dischargers		
NPC	463	463	1	NEEDS Pre-Treatment Code "Y"=Yes, "N"=No		
NPS	464	464	1	NPDES Facility Source/Status		
NSN	465	473	9	NEEDS Survey Number		
NTC	474	474	1	NEEDS Treatment Code		
ОСР	475	480	6	Organic Chemical Producers ID Number		
ODESCC	481	481	1	ODES Coastal County "Y"=Yes; "N"=No		
OFL	482	488	7.2	Total Non-Direct Other Flow (1000 GPD)		
OWN	489	491	3	Ownership Code		
PFL	492	498	7.2	Total Direct Process Flow (1000 GPD)		
REG	499	500	2	EPA Region		
REGKEY	501	504	4	Region Key		
RSLOFLO	505	511	7.2	Receiving Stream Low Flow		
RSMNFLO	512	518	7.2	Receiving Stream Mean Flow		
STA	519	520	2	State Postal Abbreviation		
STAID	521	535	15	State Identifier		
STC	536	537	2	State Code (FIPS)		
STCITY	538	544	7	State/City Code		
TFLOW	545	551	7.2	Type Flow (1000 GPD)		
UFL	552	558	7.2	Total Direct Undefined Flow (1000 GPD)		
XEGS	559	561	3	Effluent Guidelines Subcat Index		
XKEY	562	562	1	"1","2","3","4","5","6","7","8","9"		
XNME	563	565	3	GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86		
ZIP	566	570	5	Zip Code		

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Drinking Water Intakes File: BOWADRIN.DBF in BOWASITE.ZIP						
Field Name	Start	Stop	Length	Field Description		
SITEID	1	20	20	Site Identifier		
LATITUDE	21	28	8	Facility Latitude (Degrees:Minutes:Seconds)		
LONGITUDE	29	37	9	Facility Longitude (Degrees:Minutes:Seconds)		
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)		
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)		
RF1INDEX	60	70	11	RF1 Reach Number Location		
RF1MILE	71	76	6.2	Mile Point on RF1 Reach		
RF1DIST	77	82	6.2	Distance From RF1 Reach		
RF3INDEX	83	99	17	RF3 Reach Number Location		
RF3MILE	100	105	6.2	Mile Point on RF3 Reach		
RF3DIST	106	111	6.2	Distance From RF3 Reach		
AQCD	112	115	4	Aquifer Code		
ASC	116	138	23	STORET Agency/Station Code		
AVGD	139	142	4	Average Depth		
BUY	143	143	1	Purchase Code		
CC1	144	148	5	City Code #1 (EPA Code)		
CNC	149	151	3	County Code (FIPS)		
CNME	152	166	15	Contact Name		
CNN	167	186	20	County Name		
CTITLE	187	201	15	Contact Title		
СТҮ	202	221	20	City Name		
DUD	222	229	8	Date of Update		
FRDS	230	238	9	FRDS ID# - Cross-Reference		
GEOAG	239	258	20	Geologic Age		
GEOCDE	259	261	3	Geologic Age Code		
IDAT	262	269	8	Date (mm/dd/yy)		

	Drinking Water Intakes File: BOWADRIN.DBF in BOWASITE.ZIP								
Field Name	Start	Stop	Length	Field Description					
INTAKET	270	270	1	Type Source G/S/B					
INTRVWR	271	285	15	Interviewer					
MAXD	286	289	4	Maximum Depth					
MILES	290	296	7.2	Miles					
MIND	297	300	4	Minimum Depth					
NAME	301	320	20	Name					
NPD	321	329	9	NPDES# XREF to IFD Database					
NWLS	330	332	3	Number of Wells					
OWN	333	335	3	Ownership					
PAVGF	336	342	7.2	Production Avg. Daily (Gal/Day)					
PCTSUP	343	345	3	%Surface / %Ground					
PHONE	346	355	10	Telephone Number					
PMAXF	356	362	7.2	Production Max. Daily (Gal/Day)					
POPSV	363	371	9	Population Served					
REG	372	373	2	EPA Region					
SHLAT	374	379	6	Sitehelp Latitude (DDMMSS)					
SHLNG	380	386	7	Sitehelp Longitude (DDDMMSS)					
SHMILES	387	393	7.2	Sitehelp Miles					
SHNME	394	403	10	Sitehelp Source Name					
SHPCT	404	410	7.2	Sitehelp Percent of Reach Miles					
SRC	411	413	3	Sitehelp Source Code					
STA	414	415	2	State Abbreviation					
STC	416	417	2	State Code (FIPS)					
TUF	418	424	7.2	Total Utility Flow					
TYPCDE	425	425	1	Type Code					
UHF	426	426	1	Utility Hit Flag (Reach File)					
VCDE	427	427	1	Versar Code='V'=>25K; '*'=<25K POPSVD					
WFPC	428	428	1	Wellfield Precision Code					
WFTYP	429	429	1	Well Type (Cassing, Artesian, Infiltration, etc.)					

<u>Drinking Water Intakes File</u> : BOWADRIN.DBF in BOWASITE.ZIP						
Field Name	Start	Stop	Length	Field Description		
WUN	430	449	20	Water Utility Name		

The following table provides the DBASE III+ database field structures for the Water Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

	Water Gage File: BOWAGAGE.DBF in BOWASITE.ZIP						
Field Name	Start	Stop	Length	Field Description			
SITEID	1	20	20	Site Identifier			
LATITUDE	21	28	8	Facility Latitude (DDMMSS)			
LONGITUDE	29	37	9	Facility Longitude (DDDMMSS)			
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)			
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)			
RF1INDEX	60	70	11	RF1 Reach Number Location			
RF1MILE	71	76	6.2	Mile Point on RF1 Reach			
RF1DIST	77	82	6.2	Distance From RF1 Reach			
RF3INDEX	83	99	17	RF3 Reach Number Location			
RF3MILE	100	105	6.2	Mile Point on RF3 Reach			
RF3DIST	106	111	6.2	Distance From RF3 Reach			
JAN	112	118	7.2	Monthly Flow - January			
FEB	119	125	7.2	Monthly Flow - February			
MAR	126	132	7.2	Monthly Flow - March			
APR	133	139	7.2	Monthly Flow - April			
MAY	140	146	7.2	Monthly Flow - May			
JUN	147	153	7.2	Monthly Flow - June			
JUL	154	160	7.2	Monthly Flow - July			
AUG	161	167	7.2	Monthly Flow - August			
SEP	168	174	7.2	Monthly Flow - September			
OCT	175	181	7.2	Monthly Flow - October			
NOV	182	188	7.2	Monthly Flow - November			
DEC	189	195	7.2	Monthly Flow - December			
RGN	196	197	2	Region Code			
AREA	198	204	7.2	Drainage Area (SQ.MI.)			
DUD	205	212	8	Date of Update			

	Water Gage File: BOWAGAGE.DBF in BOWASITE.ZIP							
Field Name	Start	Stop	Length	Field Description				
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')				
FDFF	214	214	1	Flag - Daily Flows File ('Y')				
FQMINV	215	224	10	IHS Pt. Files Index				
GHF	225	225	1	Hit Flag (Reach File)				
ICDE	226	226	1	Integrity Code				
LFVEL	227	233	7.2	Low Flow Velocity				
METHOD	234	236	3	Calculation Method Code				
MFVEL	237	243	7.2	Mean Flow Velocity				
MNFLO	244	250	7.2	USGS Mean Annual Flow				
NME	251	298	48	Station Name				
SHLAT	299	304	6	Sitehelp Latitude (DDMMSS)				
SHLNG	305	311	7	Sitehelp Longitude (DDDMMSS)				
SHMILES	312	318	7.2	Sitehelp Miles				
SHNME	319	328	10	Sitehelp Source Name				
SHPCT	329	335	7.2	Sitehelp Percent of Reach Miles				
SITE	336	337	2	Site Location				
SRC	338	340	3	Sitehelp Source Code				
STCTY	341	345	5	State/County Numeric Code				
SVTEN	346	352	7.2	USGS 7-10 Year Flow				
BEG_WYR	353	356	4	Beginning Water Year				
END_WYR	357	359	4	Ending Water Year				
ELEV	361	368	8.2	Elevation (Feet)				
WELL_DP	369	376	8.2	Well Depth (Feet)				

The following table provides the DBASE III+ database field structures for the Water Impoundment database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

	Water In	npoundmen	t File: BOV	WADAMS.DBF in BOWASITE.ZIP
Field Name	Start	Stop	Length	Field Description
SITEID	1	7	7	Site Identifier
SOURCE	8	10	3	Source of Data
ST1	11	12	2	Primary State Code Abbreviation
STCTY1	13	17	5	State/County Numeric Code
NAME	18	47	30	Official Name of Dam
LATITUDE	48	53	6	Facility Latitude (DDMMSS)
LONGITUDE	54	60	7	Facility Longitude (DDDMMSS)
LAT	61	70	10.6	Facility Latitude (decimal degrees, (-) below equator)
LON	71	81	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
INME	82	111	30	Impoundment Name
RNME	112	139	28	River, Stream, or Tributary Name on Which Dam Built
CUSEGMI	140	149	10	Catalog Unit, Segment, and Segment Length
REGN	150	151	2	Water Resources Council Region Code
RGBSN	152	155	4	Water Resources Region/Basin Code
CU	156	163	8	Catalog Unit
SEG	164	166	3	Reach Segment of Dam
SEGL	167	171	5.2	Reach Segment Length
PURP	172	172	1	Major Purpose of Dam
				I=Irrigation
				H=Hydroelectric
				N=Navigation
				S=Water Supply
				R=Recreation
				P=Stock/Farm Pond
				D=Debris Control
				F=Flood Control

	Water Im	poundmen	t File: BOV	WADAMS.DBF in BOWASITE.ZIP
Field Name	Start	Stop	Length	Field Description
				O=Other
FRF3	173	189	17	RF3 Reach Number Location
FRF3MI	190	194	5	Mile Point on RF3 Reach
PURPKEY	195	195	1	Purpose Key
PUR2	196	196	1	Purpose of Dam 2 (See Above)
PUR3	197	197	1	Purpose of Dam 3 (See Above)
PUR4	198	198	1	Purpose of Dam 4 (See Above)
PUR5	199	199	1	Purpose of Dam 5 (See Above)
PUR6	200	200	1	Purpose of Dam 6 (See Above)
PUR7	201	201	1	Purpose of Dam 7 (See Above)
PUR8	202	202	1	Purpose of Dam 8 (See Above)
PUR9	203	203	1	Purpose of Dam 9 (See Above)
PUR10	204	204	1	Purpose of Dam 10 (See Above)
TYPDAM	205	206	2	Major Dam Portion Type
				RE=Earth
				VA=Vaulted Arch
				CD=Buttress
				PG=Gravity
				ER=Rockfill
				MV=Multi-Arch
				OT=Other
YRCMP	207	210	4	Year Dam Completed
SHGT	211	214	4	Structural Height (Feet)
HHGT	215	218	4	Hydraulic Height (Feet)
VNORM	219	236	8	Normal Storage of Impoundment (Acre-Feet)
VMAX	227	234	8	Maximum Storage of Impoundment (Acre-Feet)
LCRST	235	239	5	Crest Length of Dam (Feet)
TSPL	240	240	1	Spillway Type
				C=Controlled

	Water In	poundmen	t File: BO	WADAMS.DBF in BOWASITE.ZIP
Field Name	Start	Stop	Length	Field Description
				U=Uncontrolled
				N=None
				X=Unknown
WSPL	241	244	4	Dam Spillway Width (Feet)
QMAX	245	251	7	Maximum Spillway Discharge (CFS)
PINS	252	258	7.2	Quantity of Installed Power (Megawatts)
PPRO	259	265	7.2	Quantity of Proposed Power (Megawatts)
LOCK	266	266	1	Number of Navigational Locks
OWNR	267	290	24	Name of Impoundment Owner
PFOWN	291	291	1	Ownership Code
				N=Non-Federal
				G=Federal Government Agency
				C=Corps of Engineers
				X=Unknown
FEDR	292	292	1	Federally Regulated (Y=Yes, N=No, X=Unknown)
FLND	293	293	1	Private Dam on Federal Land (Y=Yes, N=No, X=Unknown)
SCSA	294	294	1	Type of Soil Conservation Service Assistance
				N=No Assistance
				T=Technical Assistance
				F=Financial Assistance
				B=Both Technical and Financial Assistance
				X=Unknown
DHAZ	295	295	1	Degree of Downstream Hazard
				1=High (More than a Few Lives Lost; Excessive Economic Loss)
				2=Significant (A Few Lives Lost; Appreciable Economic Loss)
				3=Low (No Lives Expected Lost; Minimal Economic Loss)
DCITY	296	319	24	Nearest Downstream City

Water Impoundment File: BOWADAMS.DBF in BOWASITE.ZIP						
Field Name	Start	Stop	Length	Field Description		
POP	320	326	7	Population of Downstream City		
DMILE	327	331	5.2	Distance of Downstream City From Dam (Miles)		
RET	332	342	11.2	Retention Coefficient (Dimensionless)		
MIX	343	353	11.2	Mixing Coefficient (Dimensionless)		
SAREA	354	361	8	Surface Area of Impoundment (Acres)		
SAFLG	362	362	1	Surface Area Flag (C=Calc., M=Measured, O=Other)		
ILNTH	363	367	5	Length of Impoundment (Feet)		
ILFLG	368	368	1	Impoundment Length Flag (C=Calc., M=Measured, O=Other)		
UPKEY	369	374	6	Update Key (YYMMDD)		

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

RF3 Structure File: 12345678.RF3 and 12345678.DBF in BOWARF3.ZIP						
Field Name	Start	Stop	Length	Field Description		
CATUNIT	1	8	8	Cataloging Unit (CU)		
SEGM	9	12	4	Segment Number (SEG)		
MI	13	17	5.2	Mile Point (MI)		
UPMI	18	22	5.2	Upstream Mile Pt.		
SEQNO	23	33	11.6	Hydro Sequence No.		
RFLAG	34	34	1	Reach Flag (0,1)		
OWFLAG	35	35	1	Open Water Flag (0,1)		
TFLAG	36	36	1	Terminal Flag (0,1)		
SFLAG	37	37	1	Start Flag (0,1)		
RCHTYPE	38	38	1	Reach Type Code		
LEV	39	40	2	Stream Level		
JUNC	41	42	2	Level of Downstream Reach		
DIVERGENCE	43	43	1	Divergence Code		
STARTCU	44	51	8	Start CU		
STRTSG	52	55	4	Start SEG		
STOPCU	56	63	8	Stop CU		
STOPSG	64	67	4	Stop SEG		
USDIR	68	68	1	Upstream Direction		
TERMID	69	73	5	Terminal Stream ID		
TRMBLV	74	74	1	Terminal Base Level		
PNAME	75	104	30	Primary Name		
PNMCD	105	115	11	Primary Name Code		
CNAME	116	145	30	Complement Name		
CNMCD	146	156	11	Complement Name Code		

<u>R</u> 1	RF3 Structure File: 12345678.RF3 and 12345678.DBF in BOWARF3.ZIP							
Field Name	Start	Stop	Length	Field Description				
OWNAME	157	186	30	Open Water Name				
OWNMCD	187	197	11	Open Water Name Code				
DSCU	198	205	8	Downstream CU				
DSSEG	206	209	4	Downstream SEG				
DSMI	210	214	5.2	Downstream MI				
CCU	215	222	8	Complement CU				
CSEG	223	226	4	Complement SEG				
CMILE	227	231	5.2	Complement MI				
CDIR	232	232	1	Complement Direction				
ULCU	233	240	8	Upstream Left CU				
ULSEG	241	244	4	Upstream Left SEG				
ULMI	245	249	5.2	Upstream Left MI				
URCU	250	257	8	Upstream Right CU				
URSEG	258	261	4	Upstream Right SEG				
URMI	262	266	5.2	Upstream Right MI				
SEGL	267	272	6.2	Reach Length (Miles)				
RFORGFLAG	273	273	1	RF Orgin flag(1,2,3)				
ALTPNMCD	274	281	8	Alt. Primary Name Code				
ALTOWNMC	282	289	8	Alt. OW Name Code				
DLAT	290	297	8.4	Downstream Latitude				
DLONG	298	305	8.4	Downstream Longitude				
ULAT	306	313	8.4	Upstream Latitude				
ULONG	314	321	8.4	Upstream Longitude				
MINLAT	322	329	8.4	Minimum Latitude				
MINLONG	330	337	8.4	Minimum Longitude				
MAXLAT	338	345	8.4	Maximum Latitude				
MAXLONG	346	353	8.4	Maximum Longitude				
NDLGREC	354	357	4	No. of DLG Records				
LL1KEY1	358	367	10	Starting DLG LL Key1				

R	F3 Structui	re File: 123	45678.RF3	and 12345678.DBF in BOWARF3.ZIP
Field Name	Start	Stop	Length	Field Description
LL2KEY1	368	377	10	Ending DLG LL Key1
LL1KEY2	378	387	10	Starting DLG LL Key2
LL2KEY2	388	497	10	Ending DLG LL Key2
LL1KEY3	398	407	10	Starting DLG LL Key3
LL2KEY3	408	417	10	Ending DLG LL Key3
LL1KEY4	418	427	10	Starting DLG LL Key4
LL2KEY4	428	437	10	Ending DLG LL Key4
LL1KEY5	438	447	10	Starting DLG LL Key5
LL2KEY5	448	457	10	Ending DLG LL Key5
LL1KEY6	458	467	10	Starting DLG LL Key6
LL2KEY6	468	477	10	Ending DLG LL Key6
LL1KEY7	478	487	10	Starting DLG LL Key7
LL2KEY7	488	597	10	Ending DLG LL Key7
LL1KEY8	498	507	10	Starting DLG LL Key8
LL2KEY8	508	517	10	Ending DLG LL Key8
LL1KEY9	518	527	10	Starting DLG LL Key9
LL2KEY9	528	537	10	Ending DLG LL Key9
LL1KEY10	538	547	10	Start DLG LL Key 10
LL2KEY10	548	557	10	Ending DLG LL Key10
LN1AT2	558	561	4	DLG Line Attr. 1
LN2AT2	562	565	4	DLG Line Attr. 2
AREA1	566	569	4	DLG Area ID 1
AREA2	570	573	4	DLG Area ID 2
AR1AT2	574	577	4	DLG Area Attribute
AR1AT4	578	581	4	DLG Area Attribute
AR2AT2	582	585	4	DLG Area Attribute
AR2AT4	586	589	4	DLG Area Attribute
UPDATE1	590	595	6	Update Date #1 (mmddyy)
UPDTCD1	596	603	8	Update Type Code #1

R	RF3 Structure File: 12345678.RF3 and 12345678.DBF in BOWARF3.ZIP						
Field Name	Start	Stop	Length	Field Description			
UPDTSRC1	604	611	8	Update Source #1			
UPDATE2	612	617	6	Update Date #2 (mmddyy)			
UPDTCD2	618	625	8	Update Type Code#2			
UPDTSRC2	626	633	8	Update Source #2			
UPDATE3	634	639	6	Update Date #3 (mmddyy)			
UPDTCD3	640	647	8	Update Type Code #3			
UPDTSRC3	648	655	8	Update Source #3			
DIVCU	656	663	8	Divergent CU			
DIVSEG	664	667	4	Divergent SEG			
DIVMILE	668	672	5.2	Divergent MI			
DLGID	673	678	6	DLG Number Special Use For Internal State Codes			
FILLER	678	685	7	Filler: Future Use			

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

RF3 Trace File: 12345678.TRC in BOWARF3.ZIP						
Field Name	Start	Stop	Length	Field Description		
(Header Record)						
CATUNIT	1	8	8	Cataloging Unit		
SEGM	9	12	4	Segment Number		
MI	13	17	5.2	Mile Point		
NPTS	18	21	4	Number of Lat/Lon Coordinates		
(Coordinate Reco	rd)					
LATITUDE	1	8	8.4	Latitude in Decimal		
LONGITUDE	9	16	8.4	Longitude in Decimal		
FILLER	17	21	5			

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) catalog unit boundary file. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual catalog unit boundary and is suitable for conversion into a variety of Geographic Information System formats.

Catalog Unit Boundary File: 12345678.CUB in BOWARF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDDMMSS,L=DDDMMSS,
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

Encyclopedia File: WRD File For Internal Use Only				
Field Name	Start	Stop	Length	Field Description
PARM	1	5	5	STORET Parameter Code
PARMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CACO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS CA)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CACO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT,MEMBRANE FILTER,IMMED.M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT, MEMBR FILTER, DELAYED, M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT, MEMBR FILTER, IMMED, LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR,44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER,M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI,MPN,AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR,35C,48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE),WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C,DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE, RECREATIONAL SUITABILITY @ SMPL TIME, 1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTONL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMSS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS, THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS, FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT EROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVLP
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary¹

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50!	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50!	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250 ^s			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0 ^u	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0 ^u	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0 [#]	РН	SU	Physical
	00403				≤6.5, ≥9.0 [#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0 [#]	PH, FIELD	SU	Physical

¹Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200=	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250 ^s			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250 ^s			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250 ^s			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250 ^s			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000		_	ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM, TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM,TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130*	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9 ⁺	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9 ⁺	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9 ⁺	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700 ⁺	100	10300*		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18 ⁺	1300 ^a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18 ⁺	1300 ^a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300 ^a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15ª	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15ª	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82 ⁺	15ª	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400*	2.0	2130*		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400*	2.0	2130*		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400*	2.0	2130*		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400 ⁺	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400 ⁺	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400+	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400 ⁺	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1+	100 ^s	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1+	100 ^s	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1+	100 ^s	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1+	100 ^s	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018+	1.3ª	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120+	5000 ^s	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120+	5000s	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120+	5000 ^s	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120+	5000s	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88 ^p	6.0	1500 ^p		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88 ^p	6.0	1500 ^p		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88 ^p	6.0	1500 ^p		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9 ⁺	5.0	43		CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82+	15ª	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18+	1300ª	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400*	2.0	2130*		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88 ^p	6.0	1500 ^p		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120+	5.0 ^s	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041+	0.1s	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018+	1.3ª	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13*	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039+	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7+	0.1	10.3*		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082+	0.015 ^a	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4+	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4*	0.002	2.13*		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020 ^c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100 ^s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20 ^r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000°			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000°			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000°			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0 ^r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0 ^r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0 ^r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850 [*]	50	2319*		ARSENIC, PENTAVALENT, DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20°			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20°			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20°			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020°			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20°			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0°		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0°		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200^	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126^	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33^	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100 ^t			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100 ^t			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100 ^t			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100 ^t			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100 ^t			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100 ^t			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100 ^t			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100 ^t			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1 ^t			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970 [*]		ACENAPHTHENE, TOTAL	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE, DISSOLVED	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE, SUSPENDED	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN, TOTAL	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN, DISSOLVED	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN, SUSPENDED	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE, TOTAL	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE, DISSOLVED	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE, SUSPENDED	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE, DISSOLVED	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE, SUSPENDED	UG/L	General Organic
92875	34239	2500*				BENZIDINE, DISSOLVED	UG/L	General Organic
92875	34240	2500*				BENZIDINE, SUSPENDED	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, DISSOLVED	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, SUSPENDED	UG/L	Pesticide
75252	34288		100 ^t			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100 ^t			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE, DISSOLVED	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100 ^t			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100 ^t			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100 ^t			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900*	100 ^t			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900*	100 ^t			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100 ^t			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100 ^t			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270*				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270*				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270*				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034	_	ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980 [*]		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980 [*]		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0 ^p	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0 ^p	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40°			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40°			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40°			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30 ^p		7.7 ^p	_	PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30 ^p		7.7 ^p	_	PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30 ^p		7.7 ^p		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280 [*]	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280 [*]	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600		_	1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0 ^p	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0 ^p	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90*		32*		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9 ⁺	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18+	1300 ^a	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82+	15ª	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1+	100 ^s	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120+	5000s	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200^	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250 ^s			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY, TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9 ⁺	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82 ⁺	15ª	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120 ⁺	5000s	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18+	1300 ^a	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700*		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100 ^p		240 ^p		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440*		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250 ^s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20°			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18 ⁺	1300 ^a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400+	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120 ⁺	5000s	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000*				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120 ⁺	5000°	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82+	15ª	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9 ⁺	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18+	1300 ^a	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120 ⁺	5000°	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18+	1300 ^a	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120 ⁺	5000s	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50 [!]	TURBIDITY, FIELD	NTU	Physical
	82079				50 [!]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000°			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

^{*}Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

⁺Hardness Dependent Criteria (100 mg/L CaCO₃ Used).

^{***}pH Dependent Criteria (7.8 pH Used).

Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

^{*}EPA freshwater aquatic life chronic criterion; marine criterion is $\leq 6.5, \geq 8.5$.

¹Arizona state standard.

^aEPA action level, 40 CFR 141.80.

^bCalifornia and Florida state bathing water standards.

^cA Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

ⁿTotal coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

^pProposed Criterion.

^TAverage annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

^sEPA National Secondary Drinking Water Regulation, 40 CFR 143.

^tThe maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 μg/L, 40 CFR 141.12.

^uColdwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory and Monitoring Program "Level I" Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	Flow Parameter Group ¹	C.A.S. Number
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

¹Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	Conductivity Parameter Group	C.A.S. Number
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	Dissolved Oxygen Parameter Group	C.A.S. Number
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	pH Parameter Group	C.A.S. Number
	PH (STANDARD UNITS)	-
00400	(
00400 00403	PH, LAB (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (μΕQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326
STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

	C.A.S.
Phosphate/Phosphorus Parameter Group	Number
PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
PHOSPHATE, POLY (MG/L AS PO4)	14265442
PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
PHOSPHORUS, TOTAL (MG/L AS P)	7723140
PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140
Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
HARDNESS, TOTAL (MG/L AS CACO3)	471341
SULFATE, TOTAL (MG/L AS SO4)	14808798
SULFATE, DISSOLVED (MG/L AS SO4)	14808798
RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-
Chlorophyll Parameter Group	C.A.S. Number
CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
l '	
	PHOSPHATE, TOTAL (MG/L AS PO4) PHOSPHATE, POLY (MG/L AS PO4) PHOSPHATE, ORTHO (MG/L AS PO4) PHOSPHORUS, TOTAL (MG/L AS P) PHOSPHORUS, DISSOLVED (MG/L AS P) PHOSPHORUS, DISSOLVED (MG/L AS P) PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) Sulfates/Total Dissolved Solids/Hardness Parameter Group HARDNESS, TOTAL (MG/L AS CACO3) SULFATE, TOTAL (MG/L AS SO4) SULFATE, DISSOLVED (MG/L AS SO4) RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L) Chlorophyll Parameter Group CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH. CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-
STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES, DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

NPS D-19 December 1997